


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 1022-5F4BS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-01195			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	1261 FNL 2602 FWL		NENW	5	10.0 S	22.0 E	S			
Top of Uppermost Producing Zone	2102 FNL 2143 FWL		SEnw	5	10.0 S	22.0 E	S			
At Total Depth	2102 FNL 2143 FWL		SEnw	5	10.0 S	22.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 503		23. NUMBER OF ACRES IN DRILLING UNIT 578					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 311		26. PROPOSED DEPTH MD: 10417 TVD: 10317					
27. ELEVATION - GROUND LEVEL 5184			28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496					
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2550	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 10417	11.6	HCP-110 LT&C	12.5	Premium Lite High Strength	310	3.38	12.0
							50/50 Poz	1510	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Gina Becker			TITLE Regulatory Analyst II			PHONE 720 929-6086				
SIGNATURE			DATE 02/06/2013			EMAIL gina.becker@anadarko.com				
API NUMBER ASSIGNED 43047535790000			APPROVAL  Permit Manager							

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 1022-5F4BS**

Surface:	1261 FNL / 2602 FWL	NENW
BHL:	2102 FNL / 2143 FWL	SENW

Section 5 T10S R22E

Unitah County, Utah
Mineral Lease: UTU-01195

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2.a **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,290'	
Birds Nest	1,615'	Water
Mahogany	2,103'	Water
Wasatch	4,511'	Gas
Mesaverde	7,058'	Gas
Sego	9,193'	Gas
Castlegate	9,274'	Gas
Blackhawk	9,717'	Gas
TVD =	10,317'	
TD =	10,417'	

- 2.b** Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

4. Proposed Casing & Cementing Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. Drilling Fluids Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. Abnormal Conditions:**7.a Blackhawk (Part of Mesaverde Group)**

Maximum anticipated bottom hole pressure calculated at 10317' TVD, approximately equals
6,603 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,319 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point -
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 9193' TVD, approximately equals
5,608 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,610 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point -
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

10. Other Information:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program



GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
All water flows encountered while drilling will be reported to the appropriate agencies.			11.00'	8-5/8", 28#, IJ-55, LTC	Air mist
	Green River @ Top of Birds Nest @ Mahogany @	1,290' 1,615' 2,103'			
	Preset f/ GL @ 2,550' TVD				
Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
	Wasatch @	4,511'			
Mud logging program TBD Cased hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# HCP-110 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.5 ppg
	Mesaverde @	7,058' TVD			
	Sego @	9,193' TVD			
	Castlegate @	9,274' TVD			
	Blackhawk	9,717' TVD			
Max anticipated Mud required 12.5 ppg		10,317' TVD TD @ 10,417' MD			



KERR-McGEE OIL & GAS ONSHORE LP

Blackhawk Drilling Program

CASING PROGRAM

	DESIGN FACTORS							
					LTC		DQX	
	SIZE	INTERVAL	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	8-5/8"	0 to 2,550	28.00	IJ-55	LTC	3,390	1,880	348,000
						2.11	1.58	5.57
PRODUCTION	4-1/2"	0 to 5,000	11.60	HCP-110	DQX	10,690	8,650	279,000
						1.19	1.29	367,174
	4-1/2"	5,000 to 10,417'	11.60	HCP-110	LTC	1.19	1.29	5.49

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	2,050'	Premium cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps	250	35%	12.00	2.86
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,007'	Premium Lite II +0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	310	35%	12.00	3.38
	TAIL	6,410'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 +.002 gps FP-6L + 2% Bentonite II	1,510	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

If extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER:

Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott

DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

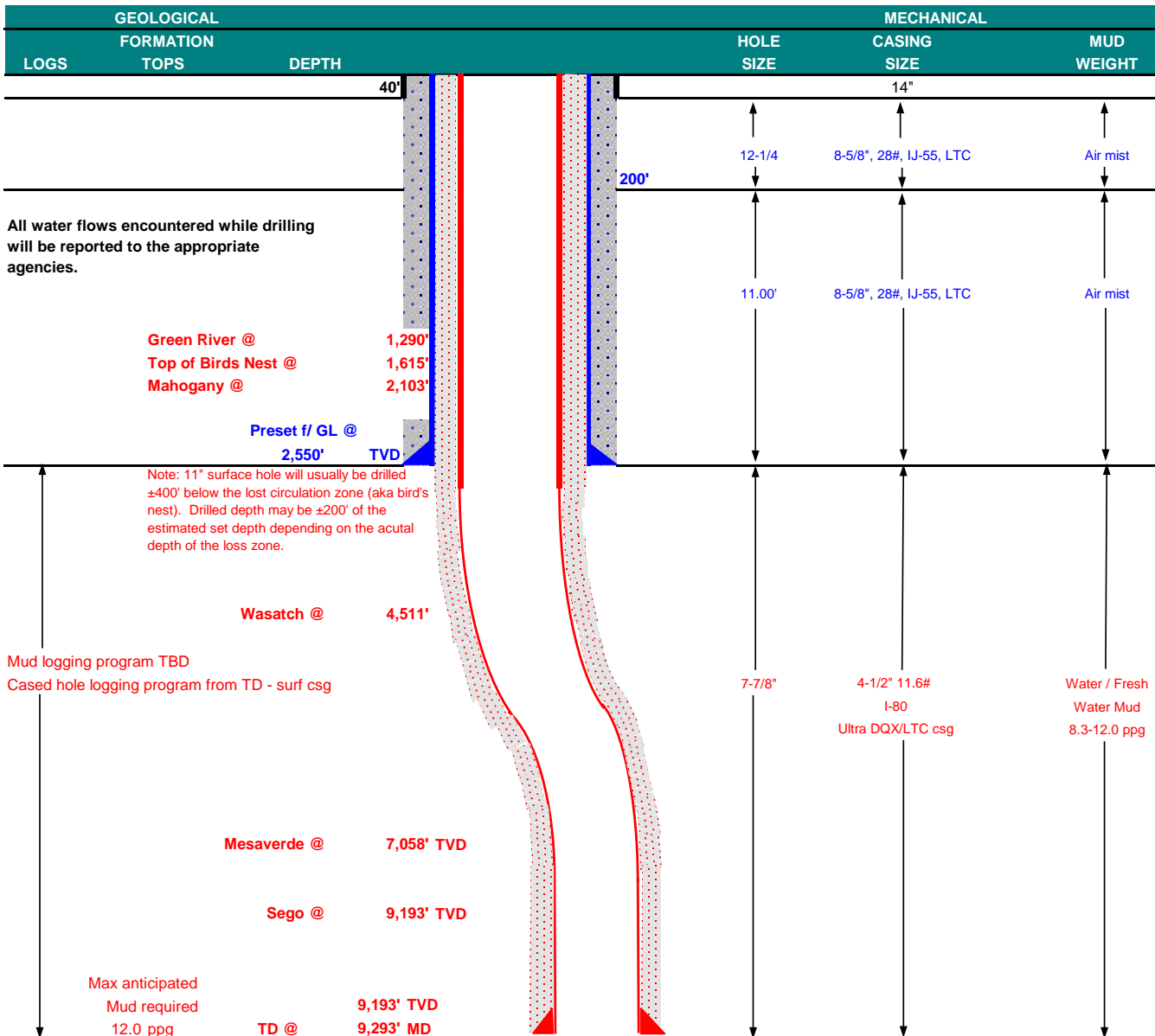
DATE:



KERR-McGEE OIL & GAS ONSHORE LP

Wasatch/Mesaverde Drilling Program

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	January 2, 2013	
WELL NAME	NBU 1022-5F4BS		TD	9,193'	9,293' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NENW	1261 FNL	2602 FWL	Sec 5	T 10S R 22E
	Latitude:	39.981792	Longitude:	-109.463953	NAD 83
BTM HOLE LOCATION	SEnw	2102 FNL	2143 FWL	Sec 5	T 10S R 22E
	Latitude:	39.979484	Longitude:	-109.465559	NAD 83
OBJECTIVE ZONE(S)	Wasatch Formation/Mesaverde Group				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP

Wasatch/Mesaverde Drilling Program

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,550	28.00	IJ-55	LTC	2.11	1.58	5.57	N/A
						7,780	6,350		267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.11		3.03
						7,780	6,350	223,000	
	4-1/2"	5,000 to 9,293'	11.60	I-80	LTC	1.11	1.11	5.48	

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe
 Fracture at surface shoe with 0.1 psi/ft gas gradient above
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient
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Option 1								
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SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2								
	LEAD	2,050'	Premium cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps	250	35%	12.00		2.86
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps	150	35%	15.80		1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	4,003'	Premium Lite II + 0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	310	35%	12.00		3.38
	TAIL	5,290'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 + .002 gps FP-6L + 2% Bentonite II	1,250	35%	14.30		1.31

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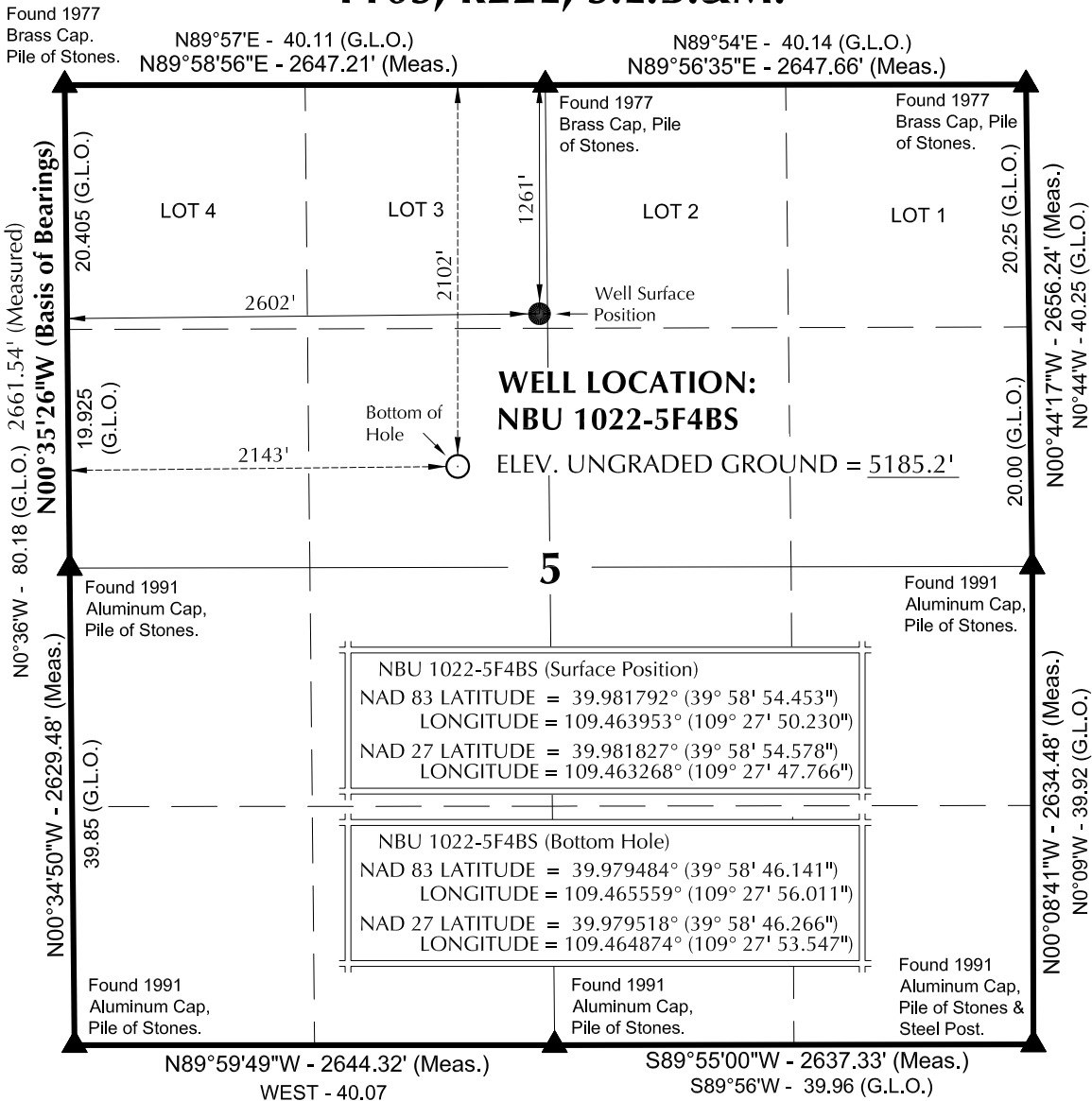
DRILLING ENGINEER:

Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliott

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

T10S, R22E, S.L.B.&M.**NOTES:**

▲ = Section Corners Located

- Well footages are measured at right angles to the Section Lines.
G.L.O. distances are shown in feet or chains.
- 1 chain = 66 feet.
- The Bottom of hole bears S28°09'05"W 954.12' from the Surface Position.
- NAD 83 Latitude & Longitude are (CORS 96)(EPOCH:2002).
- Bearings and Distances are based upon a Local Cartesian Grid, oriented to Geodetic North at the North 1/4 Corner of Section 8, T10S, R22E, S.L.B.&M. The Grid having a mean project height of 5300'. Lineal units used are U.S. Survey Foot.
- Basis of elevation is Tri-Sta "Two Water" located in Lot 4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

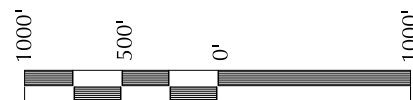
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 1022-5C

**NBU 1022-5F4BS
WELL PLAT**

2102' FNL, 2143' FWL (Bottom Hole)
**SE ¼ NW ¼ OF SECTION 5, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.**

CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182



SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John R. Haugh
PROFESSIONAL LAND SURVEYOR
REGISTRATION NO. 6028691
STATE OF UTAH

**TIMBERLINE**

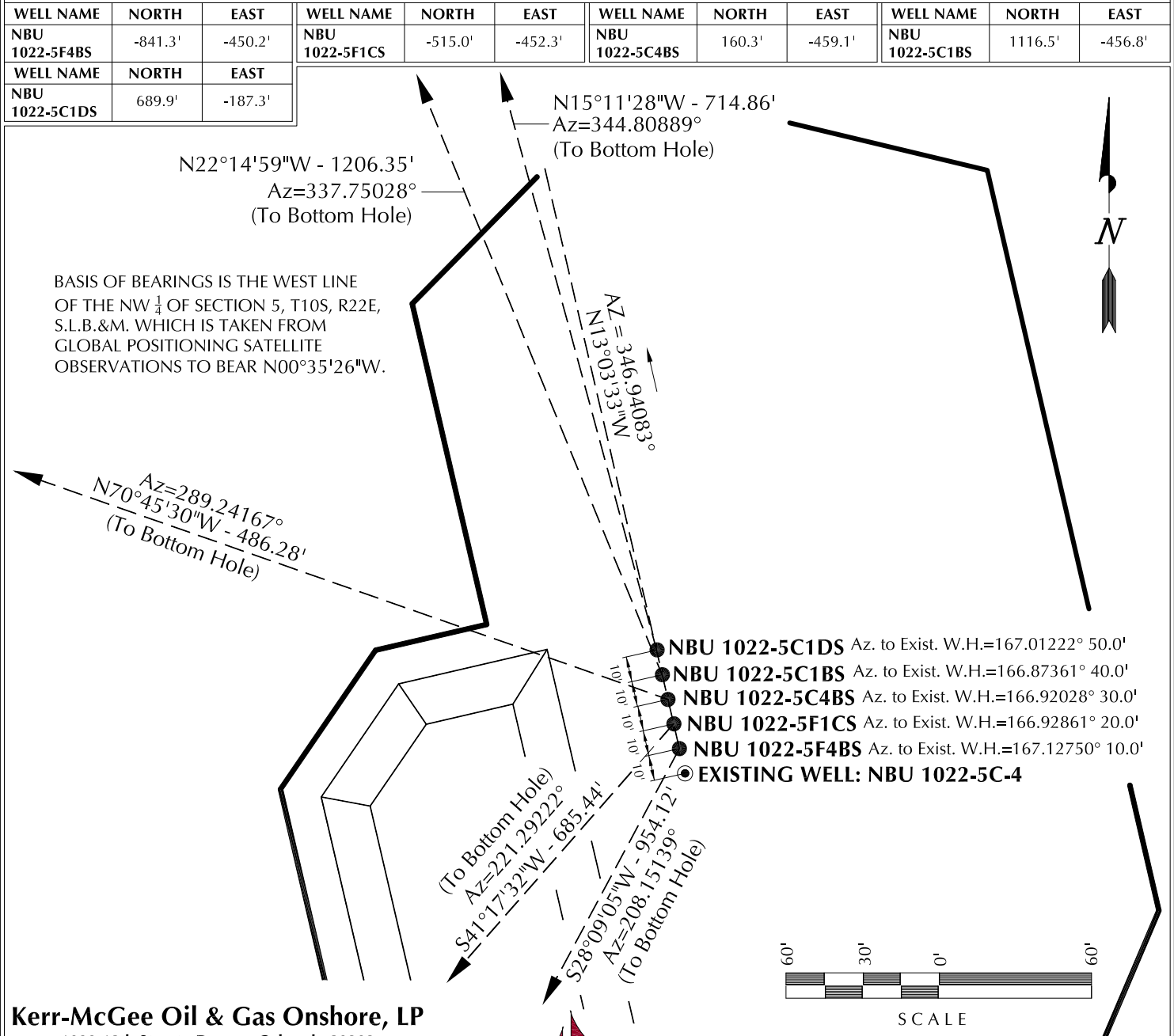
(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 8-8-12	SURVEYED BY: M.B.	SHEET NO: 1 1 OF 17
DATE DRAWN: 8-16-12	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'	Date Last Revised:	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 1022-5F4BS	39°58'54.453"	109°27'50.230"	39°58'54.578"	109°27'47.766"	1261' FNL	39°58'46.141"	109°27'56.011"	39°58'46.266"	109°27'53.547"	2102' FNL
NBU 1022-5F1CS	39.981792°	109.463953°	39.981827°	109.463268°	2602' FWL	39.979484°	109.465559°	39.979518°	109.464874°	2143' FWL
NBU 1022-5C4BS	39°58'54.549"	109°27'50.260"	39°58'54.674"	109°27'47.796"	1251' FNL	39°58'49.461"	109°27'56.069"	39°58'49.586"	109°27'53.605"	1766' FNL
NBU 1022-5C1BS	39.981819°	109.463961°	39.981854°	109.463277°	2600' FWL	39.980406°	109.465575°	39.980440°	109.464890°	2142' FWL
NBU 1022-5C1DS	39°58'54.645"	109°27'50.289"	39°58'54.770"	109°27'47.825"	1241' FNL	39°58'56.228"	109°27'56.185"	39°58'56.353"	109°27'53.721"	1081' FNL
NBU 1022-5C4BS	39.981846°	109.463969°	39.981881°	109.463285°	2597' FWL	39.982286°	109.465607°	39.982320°	109.464922°	2140' FWL
NBU 1022-5C1BS	39°58'54.741"	109°27'50.318"	39°58'54.866"	109°27'47.854"	1232' FNL	39°59'05.772"	109°27'56.185"	39°59'05.897"	109°27'53.720"	115' FNL
NBU 1022-5C1DS	39.981873°	109.463977°	39.981907°	109.463293°	2595' FWL	39.984937°	109.465607°	39.984972°	109.464922°	2150' FWL
NBU 1022-5C1DS	39°58'54.837"	109°27'50.346"	39°58'54.962"	109°27'47.882"	1222' FNL	39°59'01.653"	109°27'52.751"	39°59'01.778"	109°27'50.287"	532' FNL
NBU 1022-5C-4	39.981899°	109.463985°	39.981934°	109.463300°	2593' FWL	39.983793°	109.464653°	39.983827°	109.463969°	2413' FWL
NBU 1022-5C-4	39°58'54.356"	109°27'50.201"	39°58'54.481"	109°27'47.737"	1271' FNL					
NBU 1022-5C-4	39.981766°	109.463945°	39.981800°	109.463260°	2604' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-5C

WELL PAD INTERFERENCE PLAT
WELLS - NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.

CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

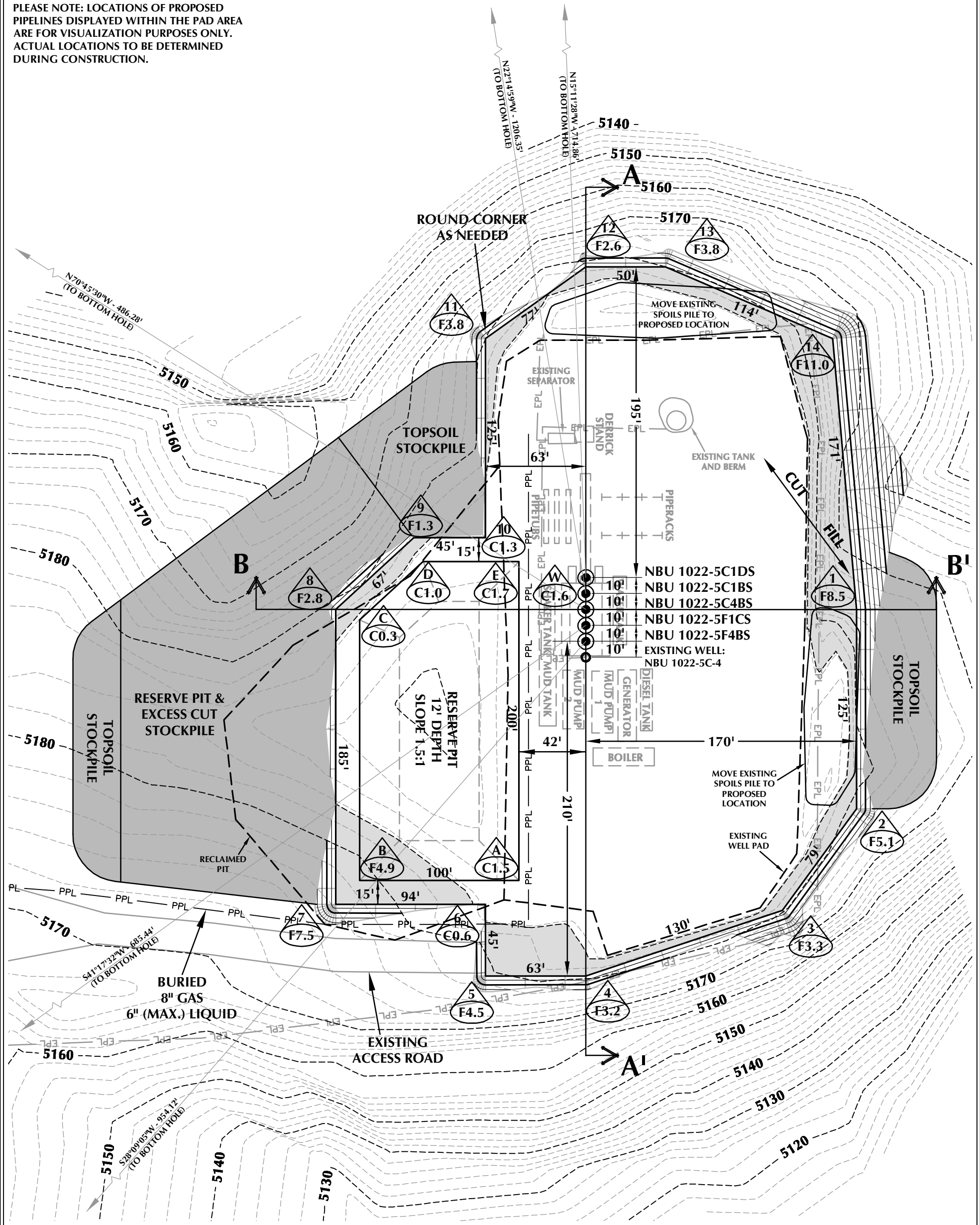
TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 8-8-12	SURVEYED BY: M.B.	SHEET NO: 6 6 OF 17
DATE DRAWN: 8-16-12	DRAWN BY: T.J.R.	
SCALE: 1" = 60'	Date Last Revised:	

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



WELL PAD - NBU 1022-5C DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5185.3'
FINISHED GRADE ELEVATION = 5183.7'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 2.89 ACRES
TOTAL DISTURBANCE AREA = 4.05 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-5C

WELL PAD - LOCATION LAYOUT
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 5,905 C.Y.
TOTAL FILL FOR WELL PAD = 4,638 C.Y.
TOPSOIL @ 6" DEPTH = 1,080 C.Y.
EXCESS MATERIAL = 1,267 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 6,440 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 24,410 BARRELS

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

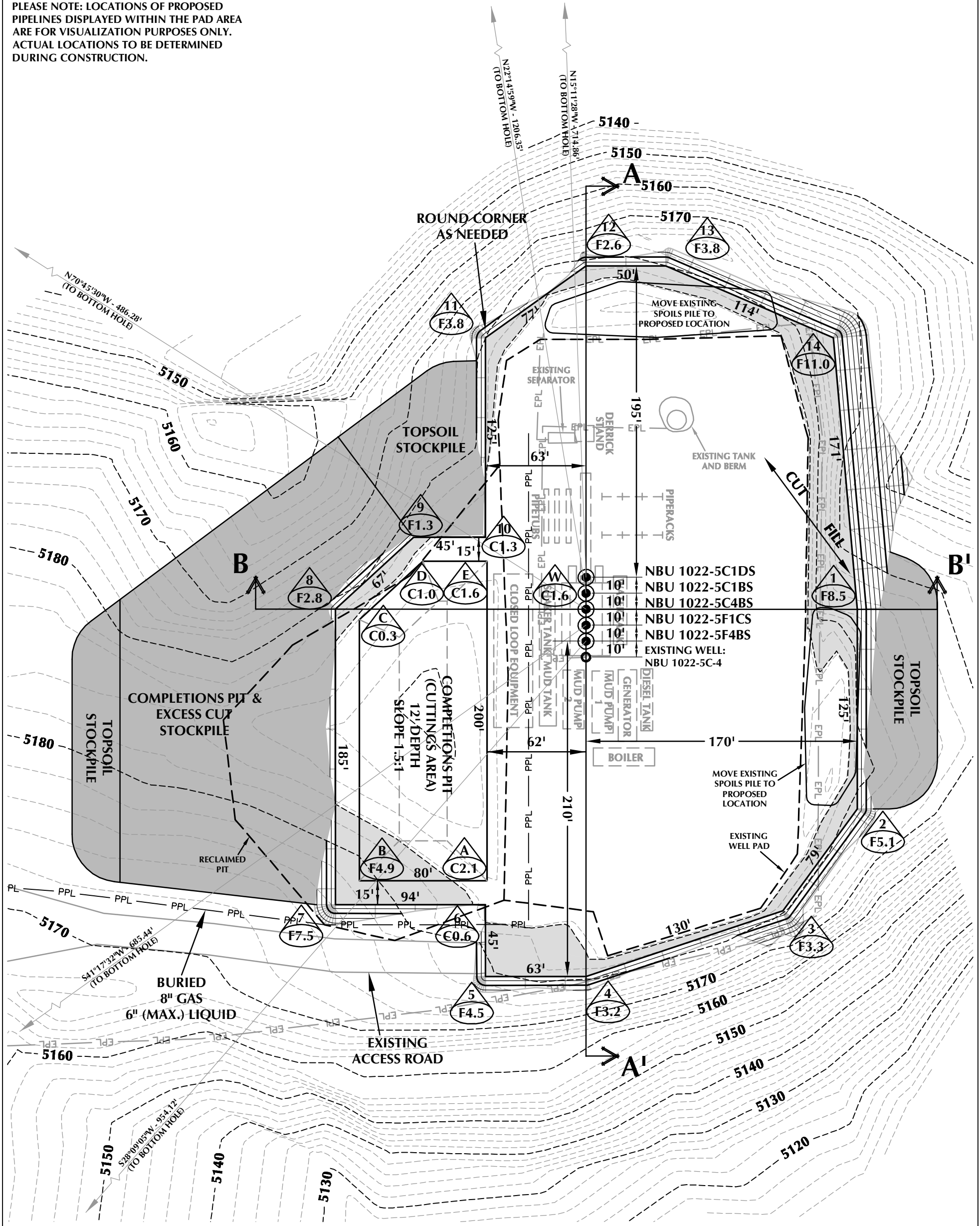


HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

SCALE: 1"=60' DATE: 9/4/12 SHEET NO:

REVISED: 7 7 OF 17

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



WELL PAD - NBU 1022-5C (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5185.3'
FINISHED GRADE ELEVATION = 5183.7'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 2.89 ACRES
TOTAL DISTURBANCE AREA = 4.05 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-5C

WELL PAD - LOCATION LAYOUT
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 5,905 C.Y.
TOTAL FILL FOR WELL PAD = 4,638 C.Y.
TOPSOIL @ 6" DEPTH = 1,080 C.Y.
EXCESS MATERIAL = 1,267 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
+/- 4,820 C.Y.
COMPLETIONS PIT CAPACITY
(2' OF FREEBOARD)
+/- 18,030 BARRELS

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

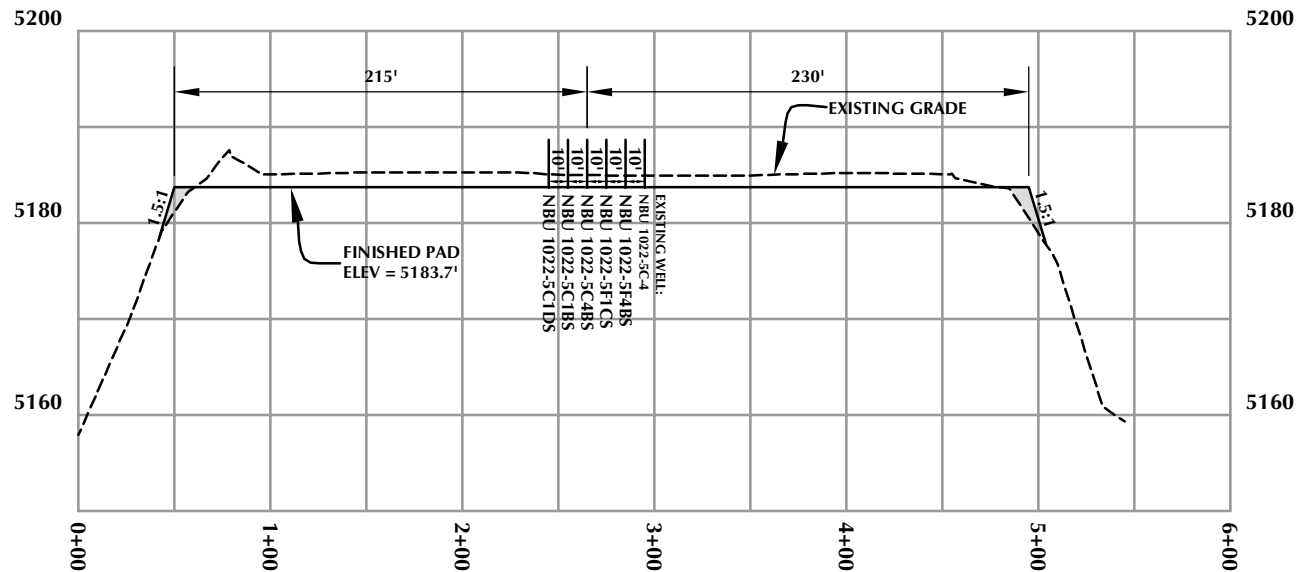
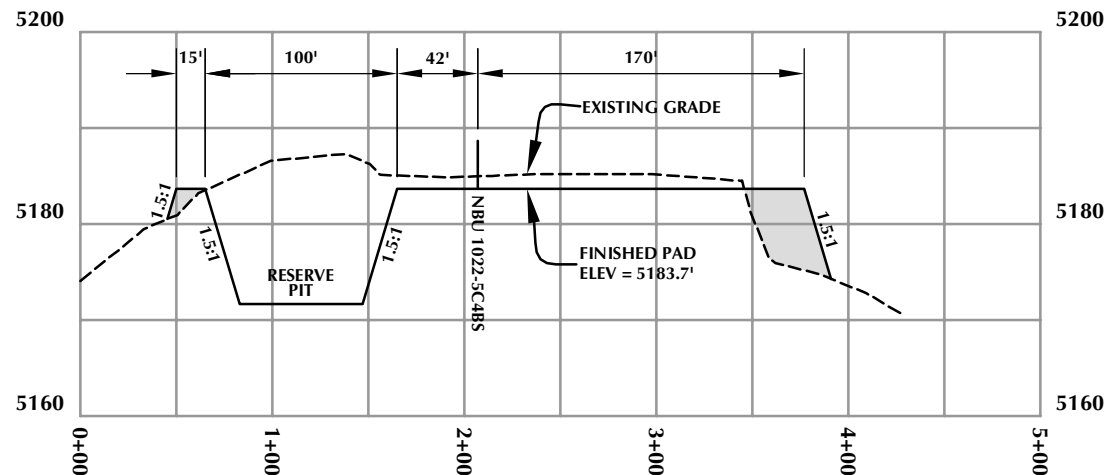
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

SCALE: 1"=60' DATE: 10/26/12 SHEET NO:

REVISED: 7B 7B OF 17

**CROSS SECTION A-A'****CROSS SECTION B-B'**

NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT WIDTH.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-5C

WELL PAD - CROSS SECTIONS

**NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH**



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

Scale: 1"=100'
REVISED:

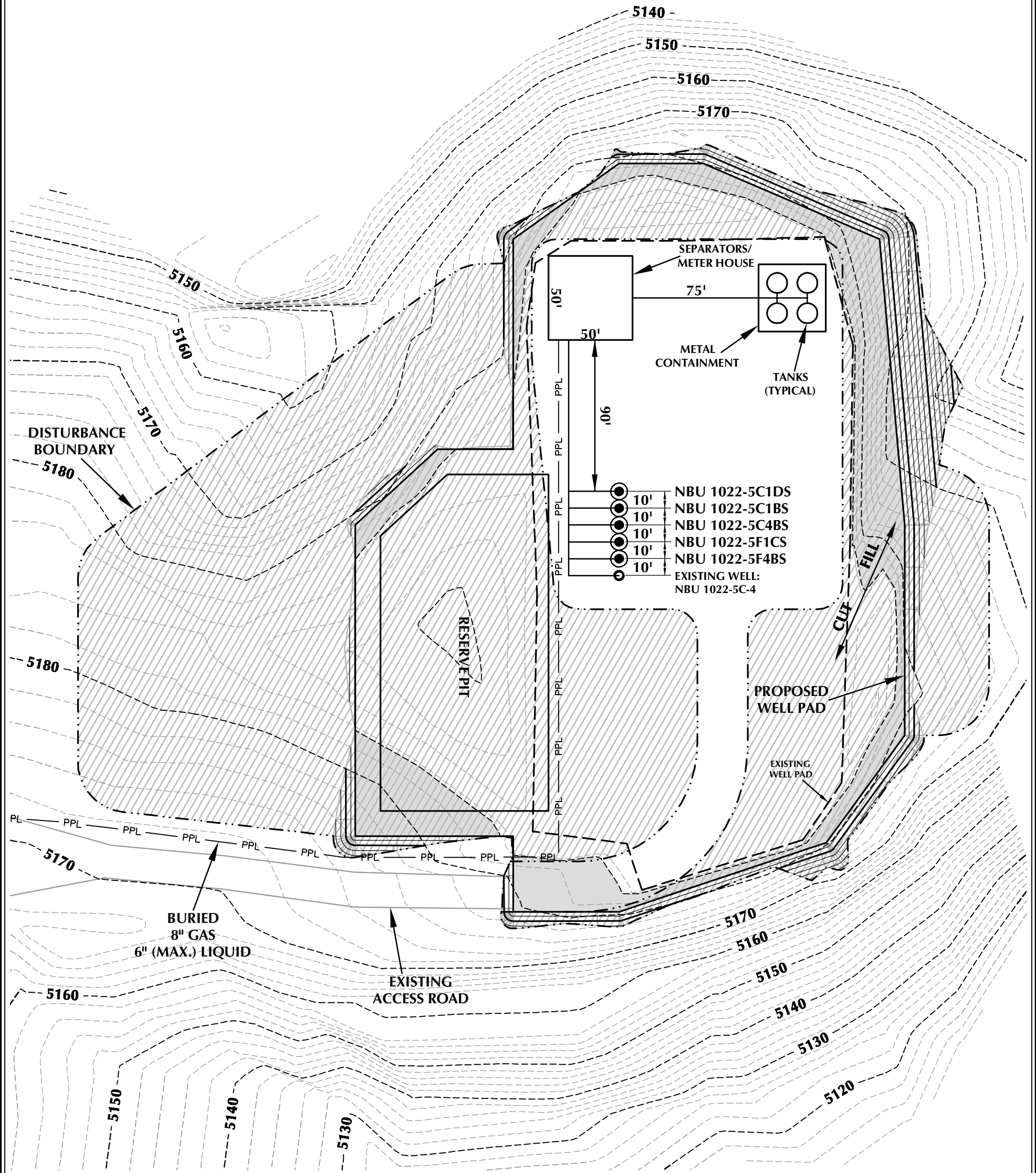
Date: 9/4/12

SHEET NO:

8 8 OF 17

RECEIVED: February 04, 2013

- PLEASE NOTE:
1. LOCATIONS OF PROPOSED FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.
 2. ACTUAL RECLAMATION AREA TO BE DETERMINED DURING INTERIM RECLAMATION.



WELL PAD - NBU 1022-5C DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 4.05 ACRES (INCLUDING EXISTING)
RECLAMATION AREA = 2.96 ACRES
TOTAL WELL PAD AREA AFTER RECLAMATION = 1.09 ACRES

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-5C

WELL PAD - RECLAMATION LAYOUT
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

SCALE: 1"=60' DATE: 9/4/12 SHEET NO:

REVISED: 9 9 OF 17

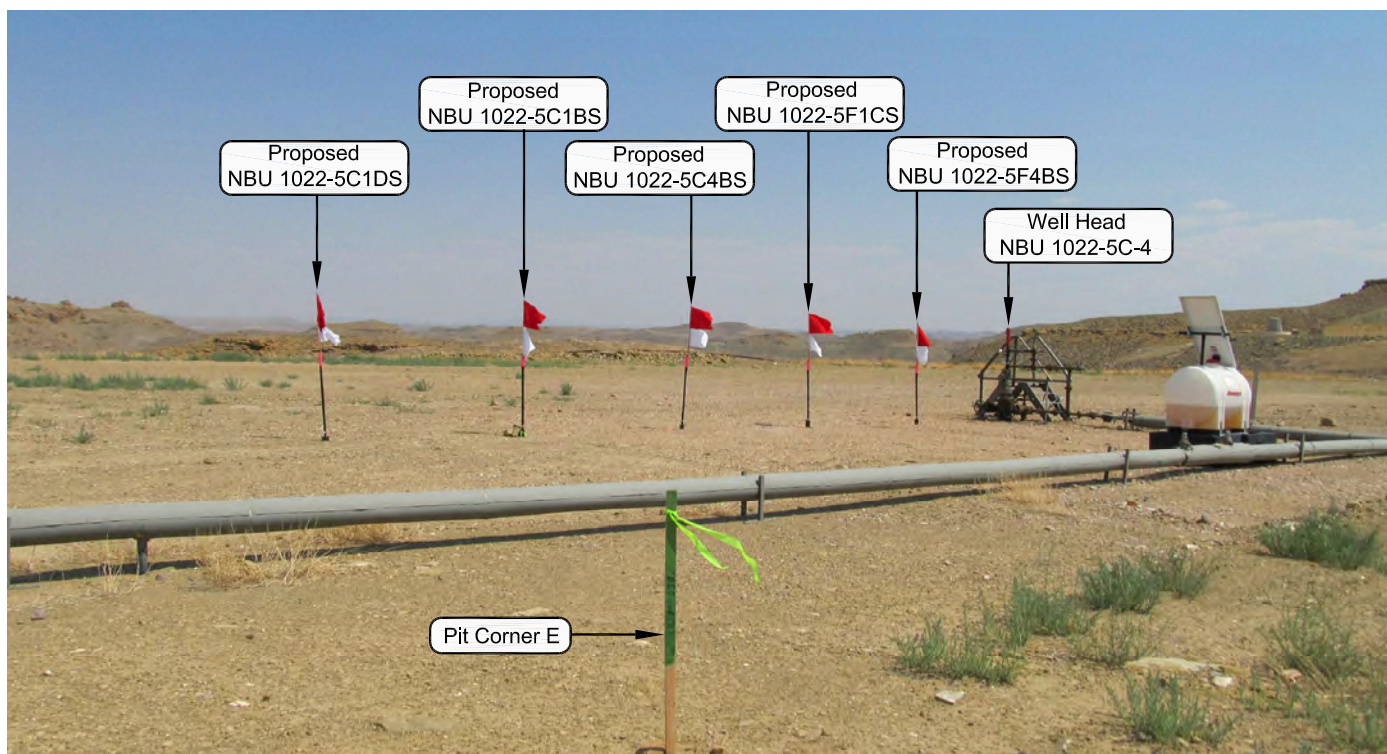


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: EASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-5C

LOCATION PHOTOS
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.



CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

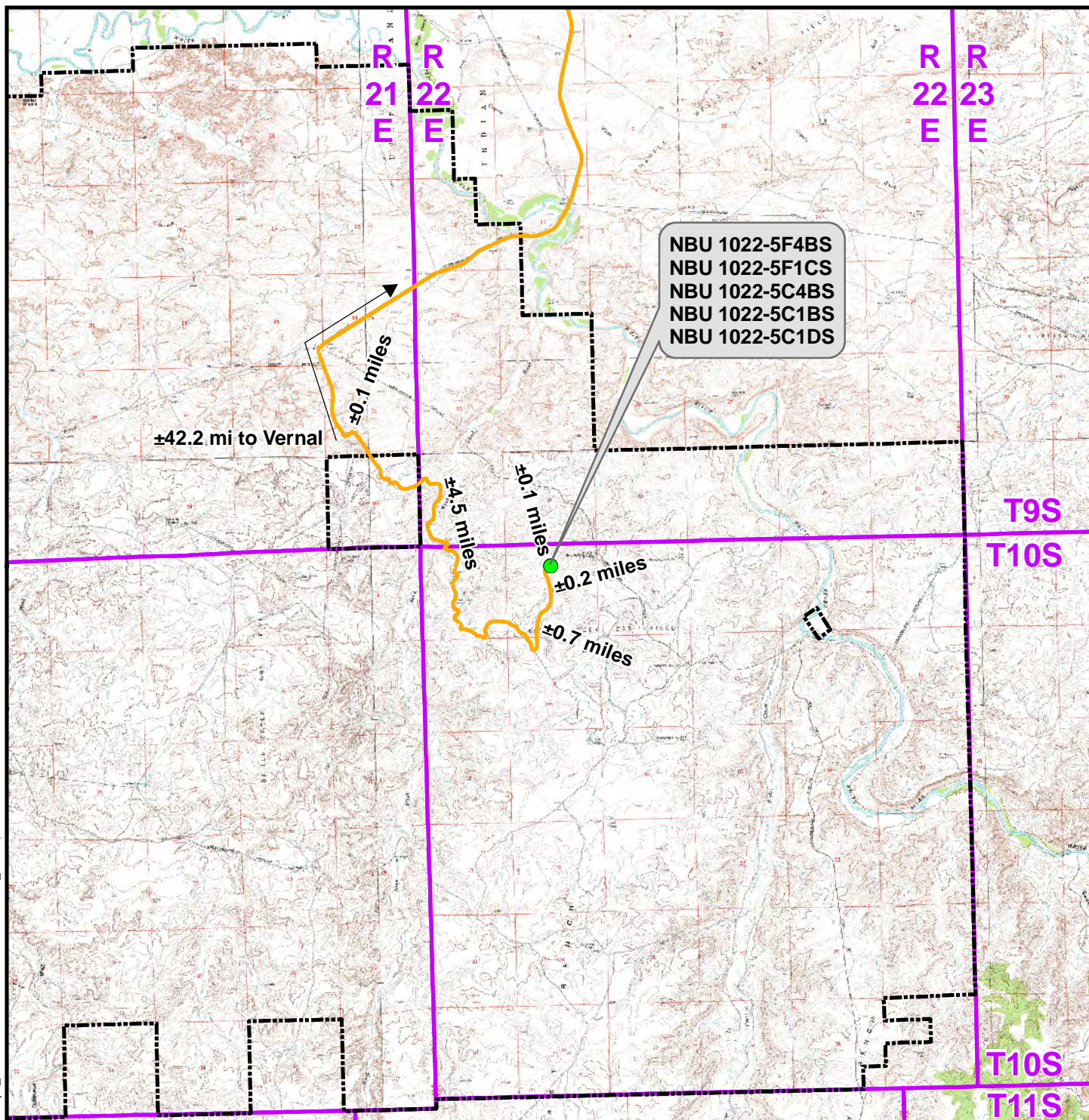
TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 8-8-12	PHOTOS TAKEN BY: M.B.	SHEET NO: 10 10 OF 17
DATE DRAWN: 8-16-12	DRAWN BY: T.J.R.	
Date Last Revised:		

RECEIVED: February 04, 2013



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 1022-5C To Unit Boundary: ±7,046ft

WELL PAD - NBU 1022-5C

TOPO A
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &
Gas Onshore L.P.**

1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182



SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

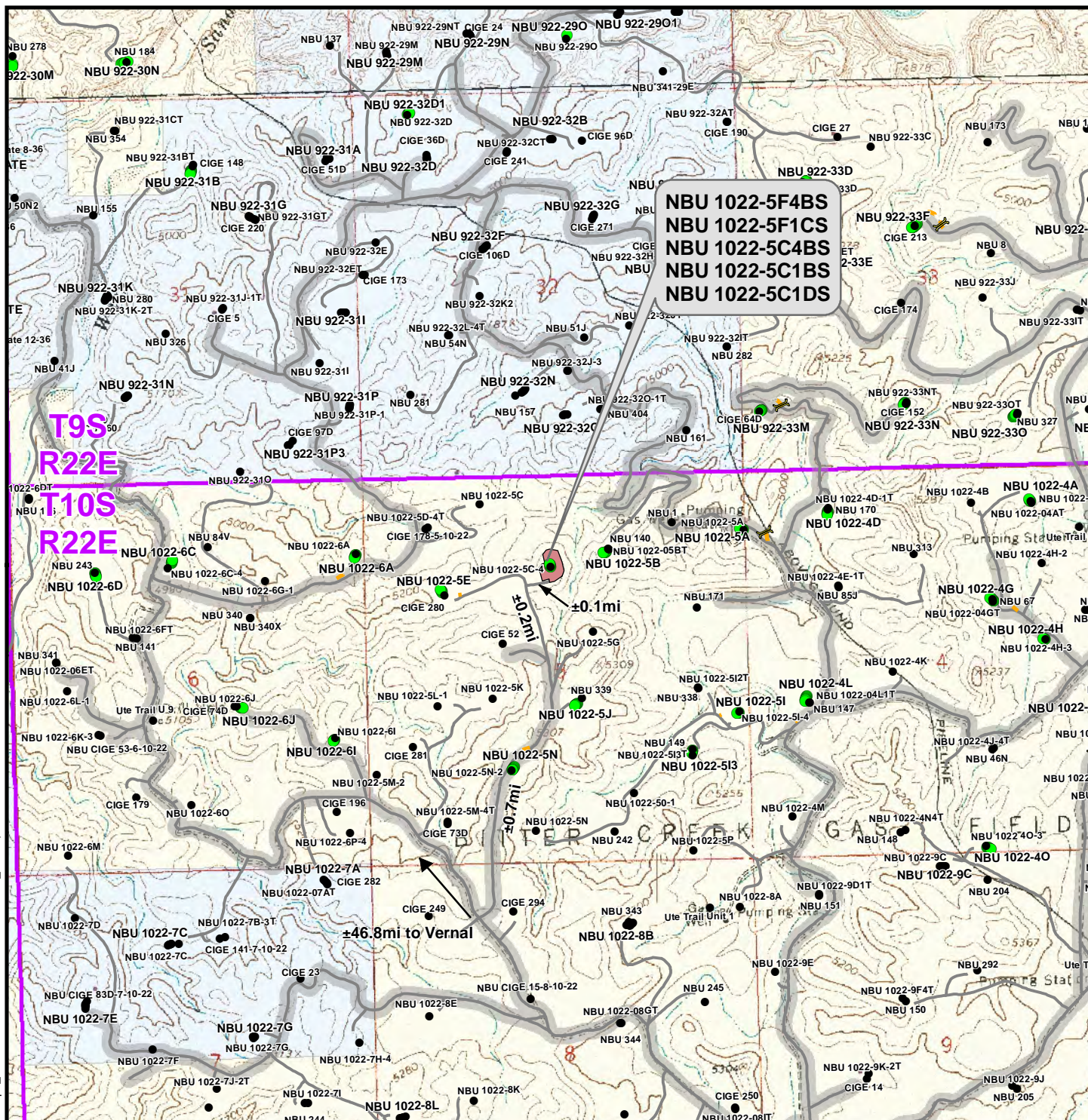
DATE: 4 Sept 2012

11

REVISED:

DATE:

11 OF 17



Legend

- | | | | | | |
|-------------------|-------------------|--------------------------|----------------------|-----------------------------|---------|
| ● Well - Proposed | ■ Well Pad | --- Road - Proposed | ▬ County Road | ■ Bureau of Land Management | ■ State |
| ● Well - Existing | — Road - Existing | ⚙ Culvert/LWC - Proposed | ■ Indian Reservation | ■ Private | |

Total Proposed Road Length: ±0ft

WELL PAD - NBU 1022-5C

TOPO B
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil &
Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202



609 CONSULTING, LLC

2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

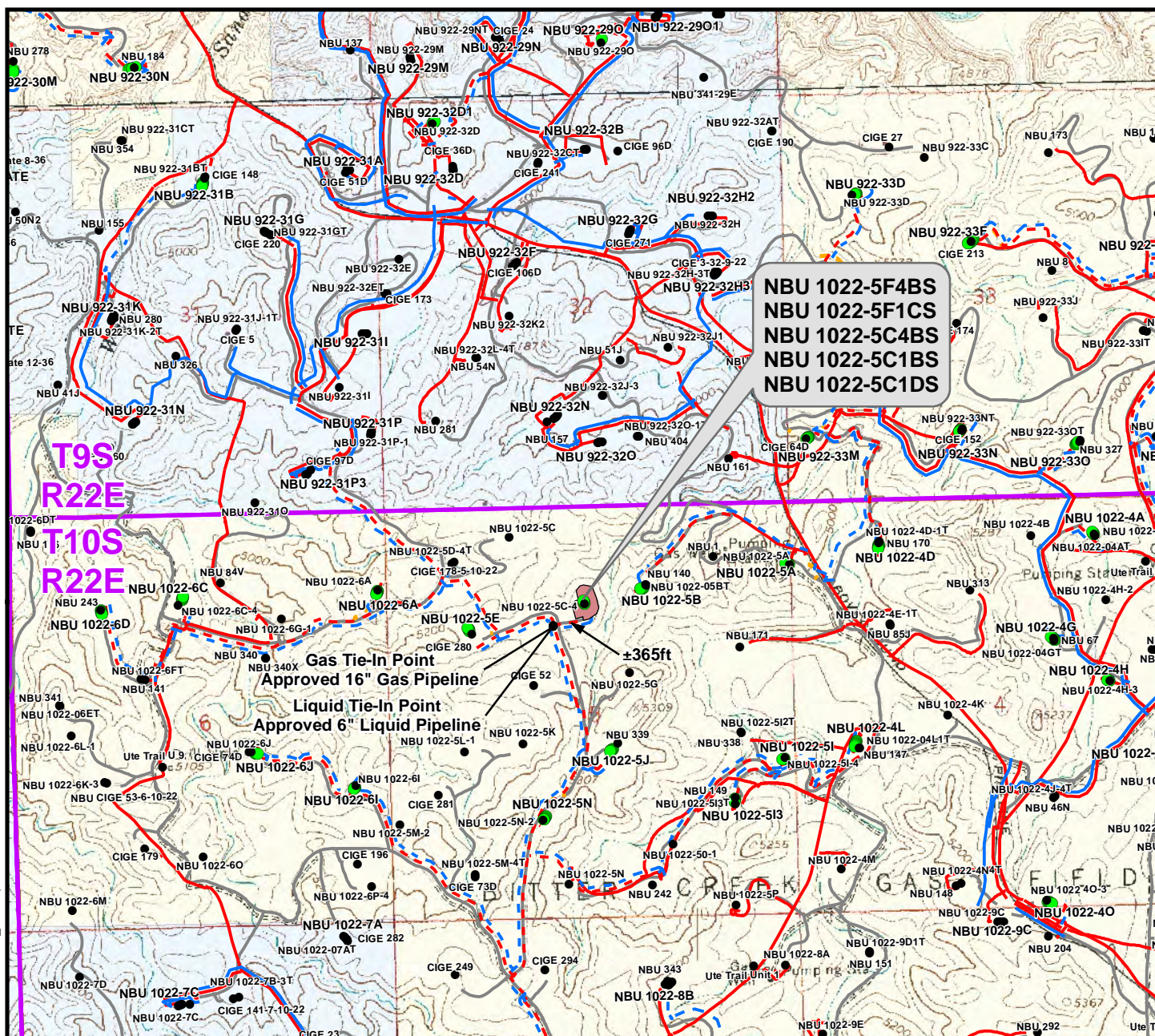
DATE: 29 Oct 2012

DATE:

SHEET NO:

12

12 OF 17



Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Separator to Edge of Pad)	±335ft
Buried 6" (Max.) (Edge of Pad to Approved 6" Liquid Pipeline)	±365ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±700ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±335ft
Buried 8" (Edge of Pad to Approved 16" Gas Pipeline)	±365ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±700ft

Legend

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management	■ State
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - Existing	- - - Road - Existing	■ Indian Reservation	■ Private
■ Well Pad	- - - Gas Pipeline - Existing				

WELL PAD - NBU 1022-5C

TOPO D
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &
Gas Onshore L.P.**

1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC

2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

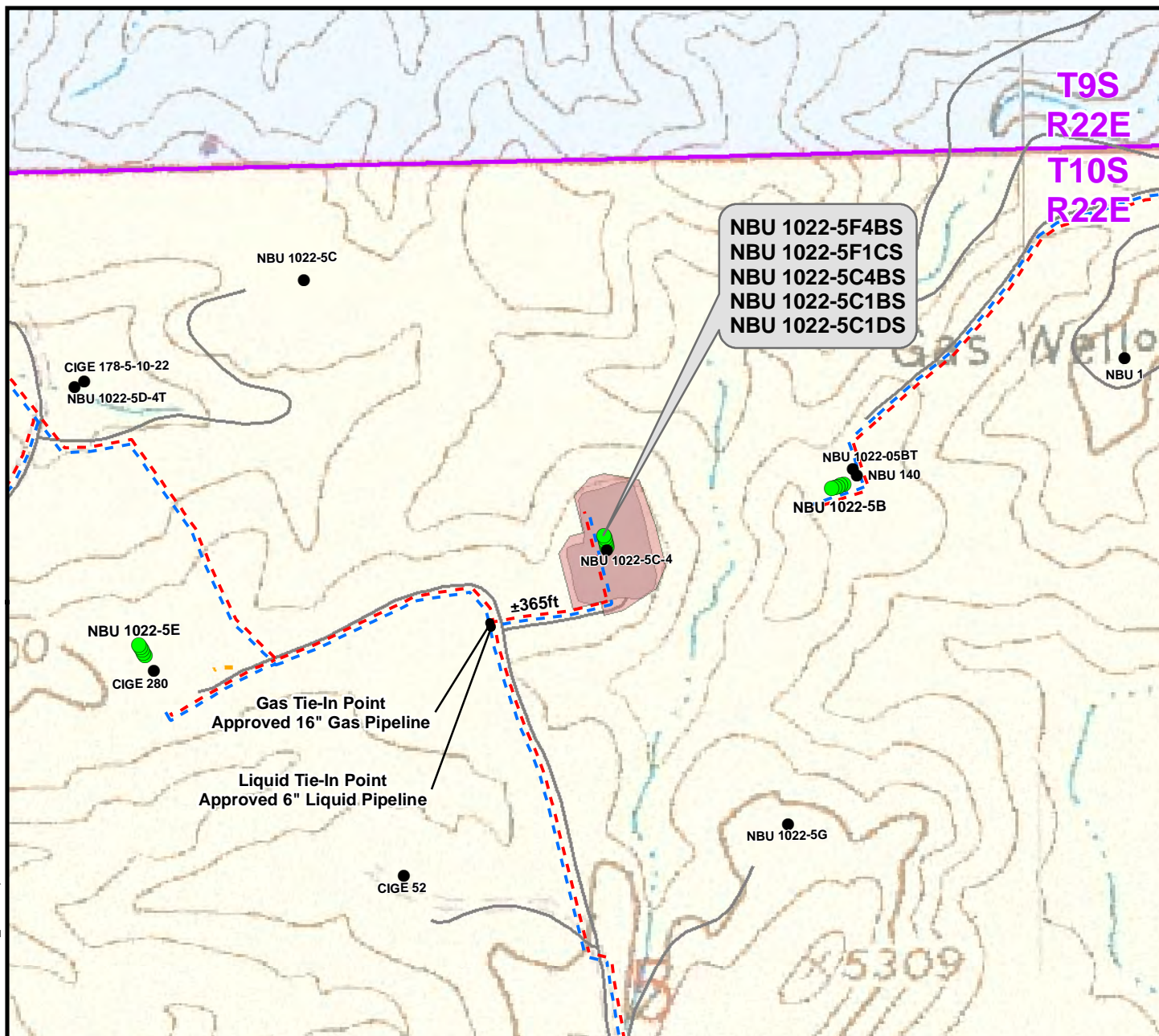
DATE: 29 Oct 2012

DATE:

SHEET NO:

14

14 OF 17



Proposed Liquid Pipeline	Length
=====	=====
Buried 6"(Max.) (Separator to Edge of Pad)	±335ft
Buried 6"(Max.) (Edge of Pad to Approved 6" Liquid Pipeline)	±365ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±700ft

Proposed Gas Pipeline	Length
=====	=====
Buried 8" (Meter House to Edge of Pad)	±335ft
Buried 8" (Edge of Pad to Approved 16" Gas Pipeline)	±365ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±700ft

Legend

● Well - Proposed	■ Well Pad - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management
● Well - Existing	■ Well Pad - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - Existing	- - - Road - Existing	■ Indian Reservation
		- - - Gas Pipeline - Existing			■ State
					■ Private

WELL PAD - NBU 1022-5C

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &
 Gas Onshore L.P.**

**1099 18th Street
 Denver, Colorado 80202**



CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

SCALE: 1" = 500ft

NAD83 USP Central

DRAWN: TL

DATE: 29 Oct 2012

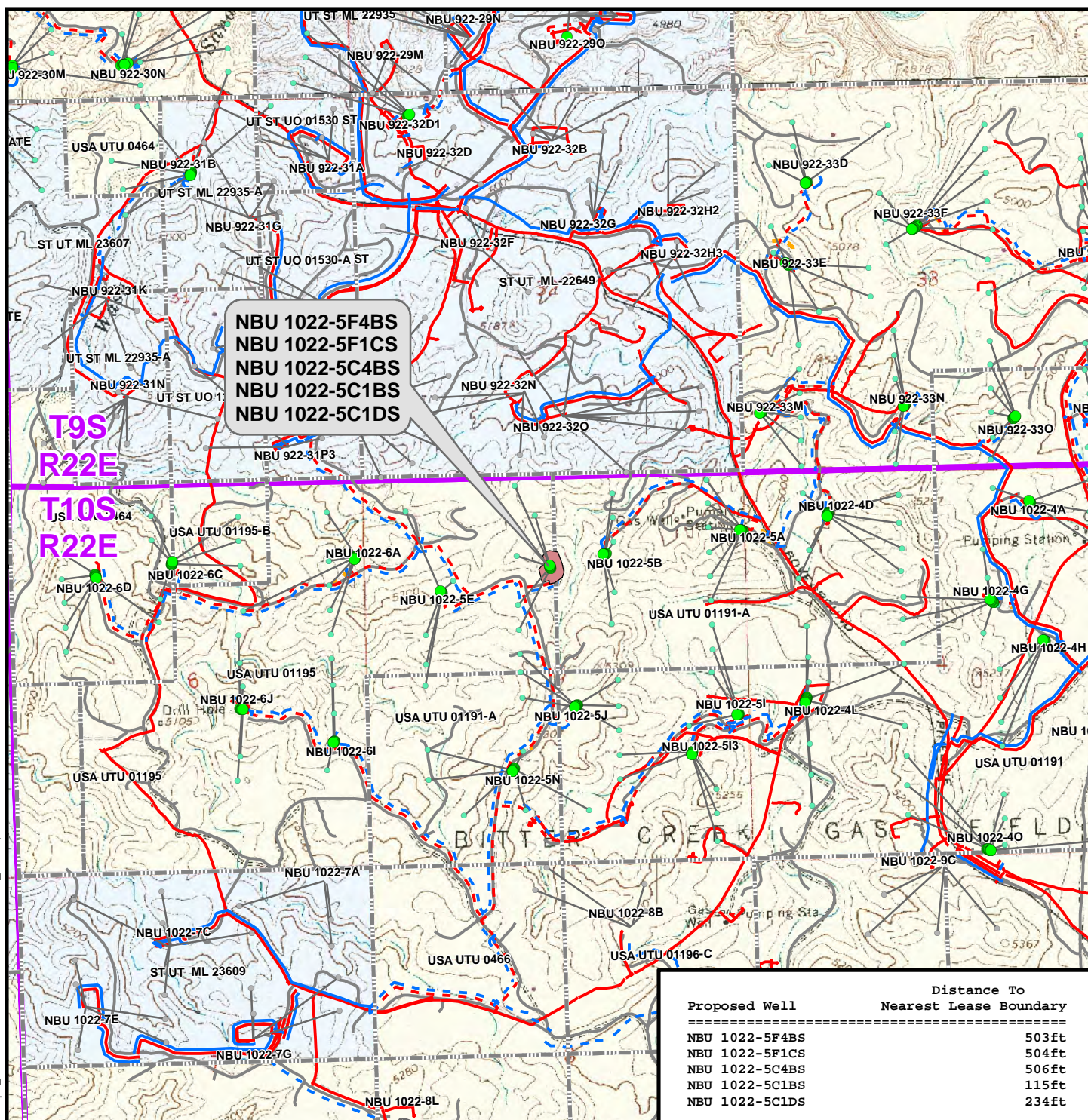
REVISED:

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SHEET NO:

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Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - NBU 1022-5C

TOPO E
NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
LOCATED IN SECTION 5, T10S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &
Gas Onshore L.P.**

1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC

2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 29 Oct 2012

DATE:

SHEET NO:

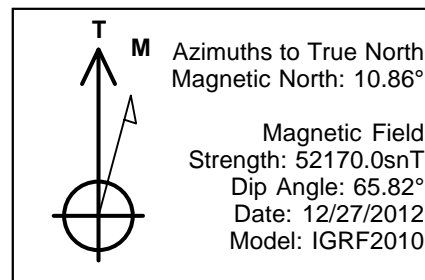
16

16 OF 17

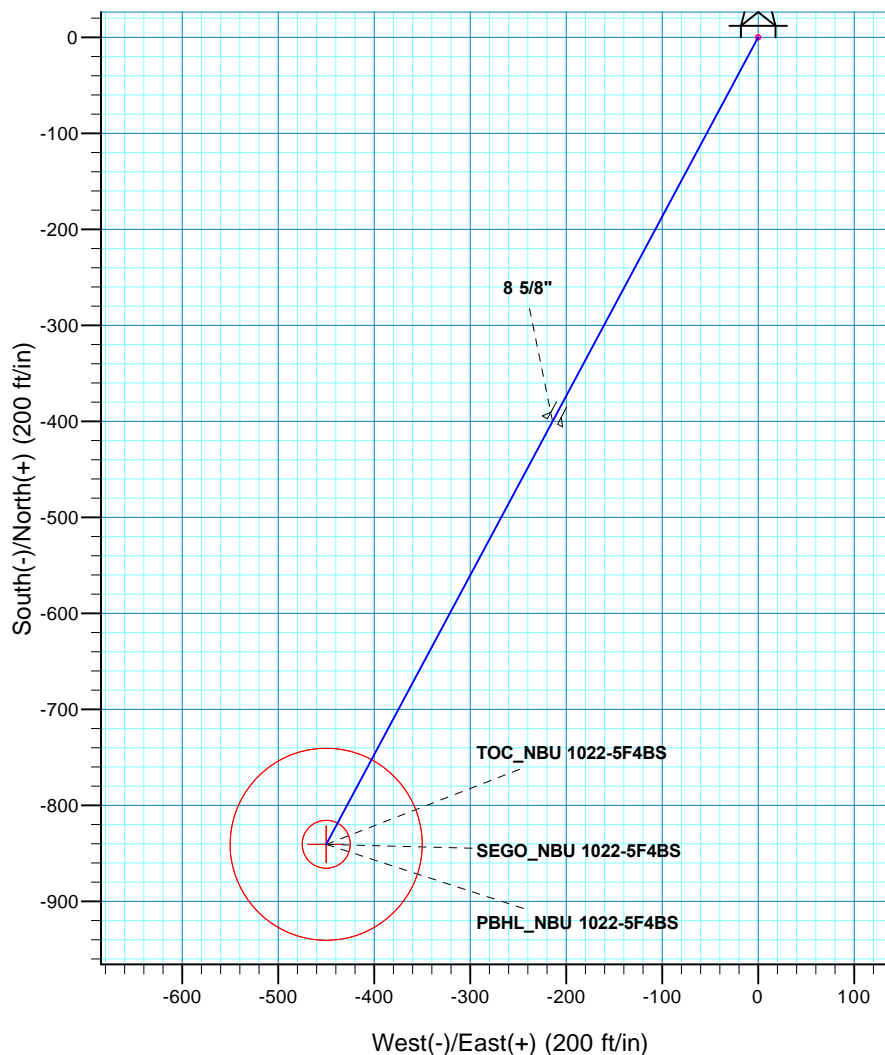
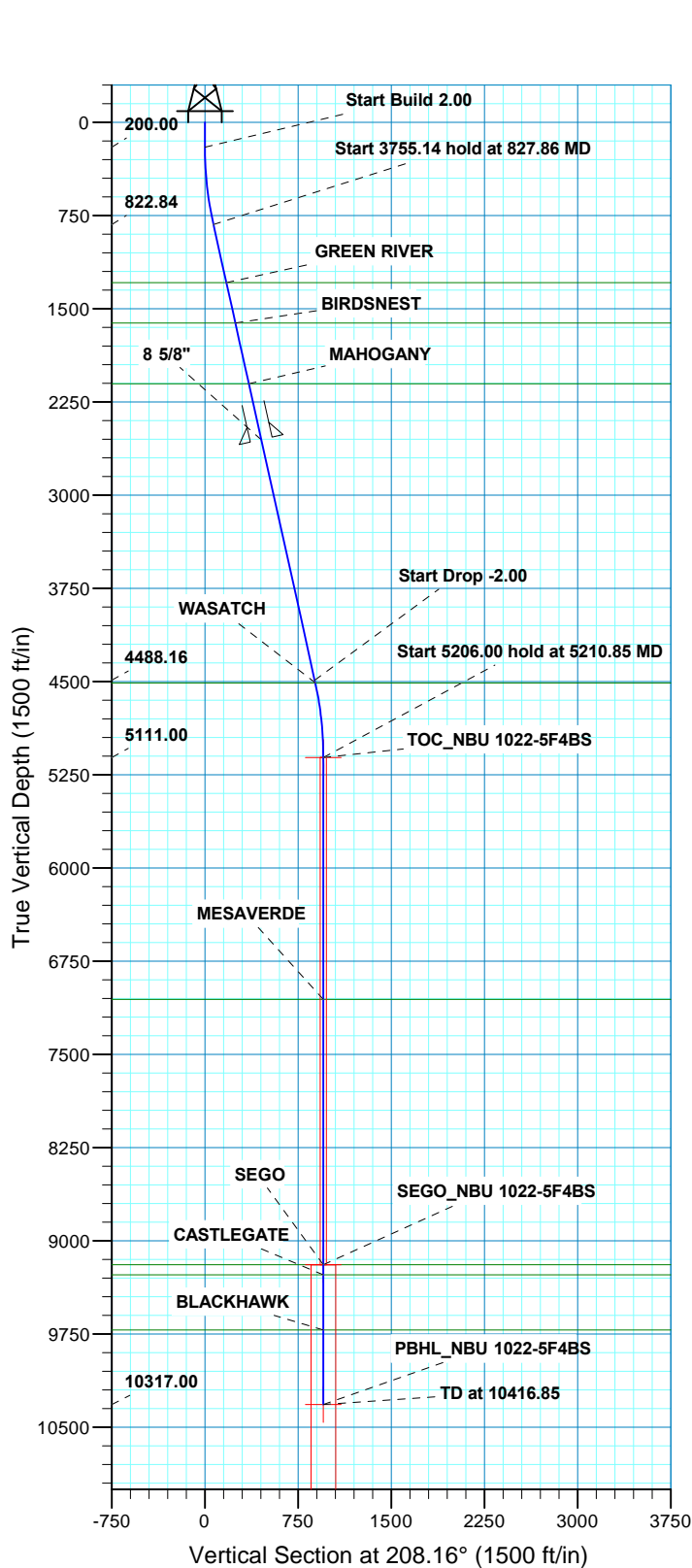
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 1022-5C
WELLS - NBU 1022-5F4BS,
NBU 1022-5F1CS, NBU 1022-5C4BS,
NBU 1022-5C1BS & NBU 1022-5C1DS
Section 5, T10S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 4.5 miles to a third Class D County Road to the north. Exit left and proceed in a northerly direction along the third Class D County Road approximately 0.7 miles to a service road to the northwest. Proceed along the service road in a northwesterly direction approximately 0.2 miles to a second service road to the east. Exit right and proceed in an easterly direction along the second service road approximately 0.1 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 47.8 miles in a southerly direction.



WELL DETAILS: NBU 1022-5F4BS						
GL 5184 & KB 4 @ 5188.00ft (ASSUMED)						
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
	0.00	0.00	14523136.89	2070914.23	39.961827	-109.463269
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
TOC	5111.00	-840.59	-450.01	14522288.67	2070478.78	39.979519
- plan hits target center						
SEGO	9193.00	-840.59	-450.01	14522288.67	2070478.78	39.979519
- plan hits target center						
PBHL	10317.00	-840.59	-450.01	14522288.67	2070478.78	39.979519
- plan hits target center						
						Longitude
						-109.464875
						Circle (Radius: 0.00)
						Circle (Radius: 25.00)
						Circle (Radius: 100.00)



SECTION DETAILS										
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
	827.86	12.56	208.16	822.84	-60.41	-32.34	2.00	208.16	68.53	
	4583.00	12.56	208.16	4488.16	-780.18	-417.66	0.00	0.00	884.94	
	5210.85	0.00	0.00	5111.00	-840.59	-450.01	2.00	180.00	953.47	TOC_NBU 1022-5F4BS
	10416.85	0.00	0.00	10317.00	-840.59	-450.01	0.00	0.00	953.47	PBHL_NBU 1022-5F4BS
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION5 T10S R22E System Datum:Mean Sea Level							FORMATION TOP DETAILS			
							TVDPath	MDPath	Formation	
							1290.00	1306.46	GREEN RIVER	
							1615.00	1639.43	BIRDSNEST	
							2103.00	2139.39	MAHOGANY	
							4511.00	4606.38	WASATCH	
							7058.00	7157.65	MESAVERDE	
							9193.00	9292.85	SEGO	
							9274.00	9373.85	CASTLEGATE	
							9717.00	9816.85	BLACKHAWK	
CASING DETAILS										
	TVD	MD	Name	Size						
	2553.00	2600.41	8 5/8"	8.625						

RECEIVED:



Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 1022-5C

NBU 1022-5F4BS

OH

Plan: PLAN #1 PERMIT

Standard Planning Report

27 December, 2012





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 1022-5F4BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Site:	NBU 1022-5C	North Reference:	True
Well:	NBU 1022-5F4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PERMIT		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 1022-5C, SECTION 5 T10S R22E				
Site Position:		Northing:	14,523,136.89 usft	Latitude:	39.981827
From:	Lat/Long	Easting:	2,070,914.23 usft	Longitude:	-109.463269
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.99

Well	NBU 1022-5F4BS, 1261 FNL 2602 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,523,136.89 usft	Latitude:	39.981827
	+E/-W	0.00 ft	Easting:	2,070,914.23 usft	Longitude:	-109.463269
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,184.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/27/12	10.86	65.82	52,170

Design	PLAN #1 PERMIT			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	208.16

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
827.86	12.56	208.16	822.84	-60.41	-32.34	2.00	2.00	0.00	208.16	
4,583.00	12.56	208.16	4,488.16	-780.18	-417.66	0.00	0.00	0.00	0.00	
5,210.85	0.00	0.00	5,111.00	-840.59	-450.01	2.00	-2.00	0.00	180.00	TOC_NBU 1022-5F4BS
10,416.85	0.00	0.00	10,317.00	-840.59	-450.01	0.00	0.00	0.00	0.00	PBHL_NBU 1022-5F4BS



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 1022-5F4BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Site:	NBU 1022-5C	North Reference:	True
Well:	NBU 1022-5F4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PERMIT		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
300.00	2.00	208.16	299.98	-1.54	-0.82	1.75	2.00	2.00	0.00
400.00	4.00	208.16	399.84	-6.15	-3.29	6.98	2.00	2.00	0.00
500.00	6.00	208.16	499.45	-13.84	-7.41	15.69	2.00	2.00	0.00
600.00	8.00	208.16	598.70	-24.58	-13.16	27.88	2.00	2.00	0.00
700.00	10.00	208.16	697.47	-38.37	-20.54	43.52	2.00	2.00	0.00
800.00	12.00	208.16	795.62	-55.19	-29.55	62.60	2.00	2.00	0.00
827.86	12.56	208.16	822.84	-60.41	-32.34	68.53	2.00	2.00	0.00
Start 3755.14 hold at 827.86 MD									
900.00	12.56	208.16	893.26	-74.24	-39.75	84.21	0.00	0.00	0.00
1,000.00	12.56	208.16	990.87	-93.41	-50.01	105.95	0.00	0.00	0.00
1,100.00	12.56	208.16	1,088.48	-112.58	-60.27	127.69	0.00	0.00	0.00
1,200.00	12.56	208.16	1,186.08	-131.74	-70.53	149.44	0.00	0.00	0.00
1,300.00	12.56	208.16	1,283.69	-150.91	-80.79	171.18	0.00	0.00	0.00
1,306.46	12.56	208.16	1,290.00	-152.15	-81.45	172.58	0.00	0.00	0.00
GREEN RIVER									
1,400.00	12.56	208.16	1,381.30	-170.08	-91.05	192.92	0.00	0.00	0.00
1,500.00	12.56	208.16	1,478.91	-189.25	-101.31	214.66	0.00	0.00	0.00
1,600.00	12.56	208.16	1,576.52	-208.41	-111.57	236.40	0.00	0.00	0.00
1,639.43	12.56	208.16	1,615.00	-215.97	-115.62	244.97	0.00	0.00	0.00
BIRDSNEST									
1,700.00	12.56	208.16	1,674.12	-227.58	-121.83	258.14	0.00	0.00	0.00
1,800.00	12.56	208.16	1,771.73	-246.75	-132.10	279.88	0.00	0.00	0.00
1,900.00	12.56	208.16	1,869.34	-265.92	-142.36	301.62	0.00	0.00	0.00
2,000.00	12.56	208.16	1,966.95	-285.08	-152.62	323.37	0.00	0.00	0.00
2,100.00	12.56	208.16	2,064.56	-304.25	-162.88	345.11	0.00	0.00	0.00
2,139.39	12.56	208.16	2,103.00	-311.80	-166.92	353.67	0.00	0.00	0.00
MAHOGANY									
2,200.00	12.56	208.16	2,162.16	-323.42	-173.14	366.85	0.00	0.00	0.00
2,300.00	12.56	208.16	2,259.77	-342.59	-183.40	388.59	0.00	0.00	0.00
2,400.00	12.56	208.16	2,357.38	-361.75	-193.66	410.33	0.00	0.00	0.00
2,500.00	12.56	208.16	2,454.99	-380.92	-203.92	432.07	0.00	0.00	0.00
2,600.00	12.56	208.16	2,552.60	-400.09	-214.18	453.81	0.00	0.00	0.00
2,600.41	12.56	208.16	2,553.00	-400.17	-214.23	453.90	0.00	0.00	0.00
8 5/8"									
2,700.00	12.56	208.16	2,650.20	-419.26	-224.45	475.55	0.00	0.00	0.00
2,800.00	12.56	208.16	2,747.81	-438.42	-234.71	497.30	0.00	0.00	0.00
2,900.00	12.56	208.16	2,845.42	-457.59	-244.97	519.04	0.00	0.00	0.00
3,000.00	12.56	208.16	2,943.03	-476.76	-255.23	540.78	0.00	0.00	0.00
3,100.00	12.56	208.16	3,040.64	-495.93	-265.49	562.52	0.00	0.00	0.00
3,200.00	12.56	208.16	3,138.24	-515.09	-275.75	584.26	0.00	0.00	0.00
3,300.00	12.56	208.16	3,235.85	-534.26	-286.01	606.00	0.00	0.00	0.00
3,400.00	12.56	208.16	3,333.46	-553.43	-296.27	627.74	0.00	0.00	0.00
3,500.00	12.56	208.16	3,431.07	-572.60	-306.54	649.48	0.00	0.00	0.00
3,600.00	12.56	208.16	3,528.68	-591.76	-316.80	671.23	0.00	0.00	0.00
3,700.00	12.56	208.16	3,626.28	-610.93	-327.06	692.97	0.00	0.00	0.00
3,800.00	12.56	208.16	3,723.89	-630.10	-337.32	714.71	0.00	0.00	0.00
3,900.00	12.56	208.16	3,821.50	-649.27	-347.58	736.45	0.00	0.00	0.00
4,000.00	12.56	208.16	3,919.11	-668.43	-357.84	758.19	0.00	0.00	0.00
4,100.00	12.56	208.16	4,016.72	-687.60	-368.10	779.93	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 1022-5F4BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Site:	NBU 1022-5C	North Reference:	True
Well:	NBU 1022-5F4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PERMIT		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	12.56	208.16	4,114.32	-706.77	-378.36	801.67	0.00	0.00	0.00
4,300.00	12.56	208.16	4,211.93	-725.94	-388.62	823.41	0.00	0.00	0.00
4,400.00	12.56	208.16	4,309.54	-745.10	-398.89	845.16	0.00	0.00	0.00
4,500.00	12.56	208.16	4,407.15	-764.27	-409.15	866.90	0.00	0.00	0.00
4,583.00	12.56	208.16	4,488.16	-780.18	-417.66	884.94	0.00	0.00	0.00
Start Drop -2.00									
4,600.00	12.22	208.16	4,504.77	-783.40	-419.38	888.59	2.00	-2.00	0.00
4,606.38	12.09	208.16	4,511.00	-784.58	-420.02	889.93	2.00	-2.00	0.00
WASATCH									
4,700.00	10.22	208.16	4,602.85	-800.54	-428.57	908.04	2.00	-2.00	0.00
4,800.00	8.22	208.16	4,701.55	-814.66	-436.12	924.06	2.00	-2.00	0.00
4,900.00	6.22	208.16	4,800.76	-825.74	-442.05	936.62	2.00	-2.00	0.00
5,000.00	4.22	208.16	4,900.34	-833.76	-446.34	945.71	2.00	-2.00	0.00
5,100.00	2.22	208.16	5,000.18	-838.70	-448.99	951.32	2.00	-2.00	0.00
5,200.00	0.22	208.16	5,100.15	-840.58	-450.00	953.45	2.00	-2.00	0.00
5,210.85	0.00	0.00	5,111.00	-840.59	-450.01	953.47	2.00	-2.00	1,399.14
Start 5206.00 hold at 5210.85 MD - TOC_NBU 1022-5F4BS									
5,300.00	0.00	0.00	5,200.15	-840.59	-450.01	953.47	0.00	0.00	0.00
5,400.00	0.00	0.00	5,300.15	-840.59	-450.01	953.47	0.00	0.00	0.00
5,500.00	0.00	0.00	5,400.15	-840.59	-450.01	953.47	0.00	0.00	0.00
5,600.00	0.00	0.00	5,500.15	-840.59	-450.01	953.47	0.00	0.00	0.00
5,700.00	0.00	0.00	5,600.15	-840.59	-450.01	953.47	0.00	0.00	0.00
5,800.00	0.00	0.00	5,700.15	-840.59	-450.01	953.47	0.00	0.00	0.00
5,900.00	0.00	0.00	5,800.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,000.00	0.00	0.00	5,900.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,100.00	0.00	0.00	6,000.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,200.00	0.00	0.00	6,100.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,300.00	0.00	0.00	6,200.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,400.00	0.00	0.00	6,300.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,500.00	0.00	0.00	6,400.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,600.00	0.00	0.00	6,500.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,700.00	0.00	0.00	6,600.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,800.00	0.00	0.00	6,700.15	-840.59	-450.01	953.47	0.00	0.00	0.00
6,900.00	0.00	0.00	6,800.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,000.00	0.00	0.00	6,900.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,100.00	0.00	0.00	7,000.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,157.85	0.00	0.00	7,058.00	-840.59	-450.01	953.47	0.00	0.00	0.00
MESAVERDE									
7,200.00	0.00	0.00	7,100.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,300.00	0.00	0.00	7,200.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,400.00	0.00	0.00	7,300.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,500.00	0.00	0.00	7,400.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,600.00	0.00	0.00	7,500.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,700.00	0.00	0.00	7,600.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,800.00	0.00	0.00	7,700.15	-840.59	-450.01	953.47	0.00	0.00	0.00
7,900.00	0.00	0.00	7,800.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,000.00	0.00	0.00	7,900.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,100.00	0.00	0.00	8,000.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,200.00	0.00	0.00	8,100.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,300.00	0.00	0.00	8,200.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,400.00	0.00	0.00	8,300.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,500.00	0.00	0.00	8,400.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,600.00	0.00	0.00	8,500.15	-840.59	-450.01	953.47	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 1022-5F4BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Site:	NBU 1022-5C	North Reference:	True
Well:	NBU 1022-5F4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PERMIT		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00	0.00	0.00	8,600.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,800.00	0.00	0.00	8,700.15	-840.59	-450.01	953.47	0.00	0.00	0.00
8,900.00	0.00	0.00	8,800.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,000.00	0.00	0.00	8,900.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,100.00	0.00	0.00	9,000.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,200.00	0.00	0.00	9,100.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,292.85	0.00	0.00	9,193.00	-840.59	-450.01	953.47	0.00	0.00	0.00
SEGO - SEGO_NBU 1022-5F4BS									
9,300.00	0.00	0.00	9,200.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,373.85	0.00	0.00	9,274.00	-840.59	-450.01	953.47	0.00	0.00	0.00
CASTLEGATE									
9,400.00	0.00	0.00	9,300.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,500.00	0.00	0.00	9,400.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,600.00	0.00	0.00	9,500.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,700.00	0.00	0.00	9,600.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,800.00	0.00	0.00	9,700.15	-840.59	-450.01	953.47	0.00	0.00	0.00
9,816.85	0.00	0.00	9,717.00	-840.59	-450.01	953.47	0.00	0.00	0.00
BLACKHAWK									
9,900.00	0.00	0.00	9,800.15	-840.59	-450.01	953.47	0.00	0.00	0.00
10,000.00	0.00	0.00	9,900.15	-840.59	-450.01	953.47	0.00	0.00	0.00
10,100.00	0.00	0.00	10,000.15	-840.59	-450.01	953.47	0.00	0.00	0.00
10,200.00	0.00	0.00	10,100.15	-840.59	-450.01	953.47	0.00	0.00	0.00
10,300.00	0.00	0.00	10,200.15	-840.59	-450.01	953.47	0.00	0.00	0.00
10,400.00	0.00	0.00	10,300.15	-840.59	-450.01	953.47	0.00	0.00	0.00
10,416.85	0.00	0.00	10,317.00	-840.59	-450.01	953.47	0.00	0.00	0.00
TD at 10416.85 - PBHL_NBU 1022-5F4BS									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TOC_NBU 1022-5F4BS - plan hits target center - Circle (radius 0.00)	0.00	0.00	5,111.00	-840.59	-450.01	14,522,288.67	2,070,478.78	39.979519	-109.464875
SEGO_NBU 1022-5F4B - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,193.00	-840.59	-450.01	14,522,288.67	2,070,478.78	39.979519	-109.464875
PBHL_NBU 1022-5F4BS - plan hits target center - Circle (radius 100.00)	0.00	0.00	10,317.00	-840.59	-450.01	14,522,288.67	2,070,478.78	39.979519	-109.464875

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (in)	Hole Diameter (in)
2,600.41	2,553.00	8 5/8"		8.625	11.000



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 1022-5F4BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5184 & KB 4 @ 5188.00ft (ASSUMED)
Site:	NBU 1022-5C	North Reference:	True
Well:	NBU 1022-5F4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PERMIT		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,306.46	1,290.00	GREEN RIVER			
1,639.43	1,615.00	BIRDSNEST			
2,139.39	2,103.00	MAHOGANY			
4,606.38	4,511.00	WASATCH			
7,157.85	7,058.00	MESAVERDE			
9,292.85	9,193.00	SEGO			
9,373.85	9,274.00	CASTLEGATE			
9,816.85	9,717.00	BLACKHAWK			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.00	200.00	0.00	0.00	Start Build 2.00	
827.86	822.84	-60.41	-32.34	Start 3755.14 hold at 827.86 MD	
4,583.00	4,488.16	-780.18	-417.66	Start Drop -2.00	
5,210.85	5,111.00	-840.59	-450.01	Start 5206.00 hold at 5210.85 MD	
10,416.85	10,317.00	-840.59	-450.01	TD at 10416.85	

NBU 1022-5C1BS/ 1022-5C1DS/ 1022-5C4BS
 NBU 1022-5F1CS/ 1022-5F4BS

Surface Use Plan of Operations
 1 of 5

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-5C PAD

<u>API #</u>	<u>NBU 1022-5C1BS</u>		
	Surface: 1232 FNL / 2595 FWL	NENW	Lot 3
	BHL: 115 FNL / 2150 FWL	NENW	Lot 3
<u>API #</u>	<u>NBU 1022-5C1DS</u>		
	Surface: 1222 FNL / 2593 FWL	NENW	Lot 3
	BHL: 532 FNL / 2413 FWL	NENW	Lot 3
<u>API #</u>	<u>NBU 1022-5C4BS</u>		
	Surface: 1241 FNL / 2597 FWL	NENW	Lot 3
	BHL: 1081 FNL / 2140 FWL	NENW	Lot 3
<u>API #</u>	<u>NBU 1022-5F1CS</u>		
	Surface: 1251 FNL / 2600 FWL	NENW	Lot 3
	BHL: 1766 FNL / 2142 FWL	SENE	
<u>API #</u>	<u>NBU 1022-5F4BS</u>		
	Surface: 1261 FNL / 2602 FWL	NENW	Lot 3
	BHL: 2102 FNL / 2143 FWL	SENE	

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on October 10-11, 2012. Present were:

- Dave Gordon, Lynn Dehner, Aaron Roe and Melissa Wardle - BLM;
- Mitch Batty - Timberline Engineering & Land Surveying, Inc.;
- Jacob Dunham - 609 Consulting, LLC.;
- Alan Rabinoff - ICF International;
- Gina Becker, Tony Kazeck, Casey McKee, Charles Chase and Randy Townley- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

NBU 1022-5C1BS/ 1022-5C1DS/ 1022-5C4BS
NBU 1022-5F1CS/ 1022-5F4BS

Surface Use Plan of Operations
2 of 5

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The following segments are "on-lease"

No new access road is proposed. Please refer to Topo Map B.

C. Location of Existing Wells:

Please refer to Topo C for existing wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 1022-5C-4, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on December 6, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is $\pm 700'$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

$\pm 335'$ (0.1 miles) – Section 5 T10S R22E (NE/4 NW/4) – On-lease UTU01195, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

$\pm 365'$ (0.1 miles) – Section 5 T10S R22E (NE/4 NW/4) – On-lease UTU01195, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to tie-in to the approved 16" gas pipeline to the west. Please refer to Exhibit A, Line 8.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 700'$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

$\pm 335'$ (0.1 miles) – Section 5 T10S R22E (NE/4 NW/4) – On-lease UTU01195, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±365' (0.1 miles) – Section 5 T10S R22E (NE/4 NW/4) – On-lease UTU01195, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the approved 6" liquid pipeline to the west. Please refer to Exhibit B, Line 8.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 1022-5C1BS/ 1022-5C1DS/ 1022-5C4BS
NBU 1022-5F1CS/ 1022-5F4BS

Surface Use Plan of Operations
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Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey report was completed on October 31, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 12-311.

A paleontological reconnaissance survey was completed October 24-26, 2012 by SWCA Environmental Consultants. For additional details please refer to report UT12-14314-194.

Biological field survey was completed October 18-November 9, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-859.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 1022-5C1BS/ 1022-5C1DS/ 1022-5C4BS
NBU 1022-5F1CS/ 1022-5F4BS

Surface Use Plan of Operations
5 of 5

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Senior Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Gina T. Becker

December 17, 2012

Date

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

February 26, 2013

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 1022-5A PAD

43-047-53530	NBU 1022-5A1BS	Sec 05 T10S R22E 0808 FNL 0014 FEL
	BHL	Sec 05 T10S R22E 0100 FNL 0497 FEL

43-047-53531	NBU 1022-5A4BS	Sec 05 T10S R22E 0794 FNL 0062 FEL
	BHL	Sec 05 T10S R22E 0756 FNL 0492 FEL

43-047-53532	NBU 1022-5A1CS	Sec 05 T10S R22E 0805 FNL 0024 FEL
	BHL	Sec 05 T10S R22E 0420 FNL 0492 FEL

43-047-53589	NBU 1022-5H1CS	Sec 05 T10S R22E 0802 FNL 0033 FEL
	BHL	Sec 05 T10S R22E 1761 FNL 0492 FEL

43-047-53590	NBU 1022-5H1BS	Sec 05 T10S R22E 0799 FNL 0043 FEL
	BHL	Sec 05 T10S R22E 1426 FNL 0492 FEL

43-047-53591	NBU 1022-5A4CS	Sec 05 T10S R22E 0797 FNL 0053 FEL
	BHL	Sec 05 T10S R22E 1091 FNL 0492 FEL

NBU 1022-5J PAD

43-047-53563	NBU 1022-5J1BS	Sec 05 T10S R22E 2136 FSL 2386 FEL
	BHL	Sec 05 T10S R22E 2464 FSL 1817 FEL

43-047-53564	NBU 1022-5F4CS	Sec 05 T10S R22E 2115 FSL 2408 FEL
	BHL	Sec 05 T10S R22E 2439 FNL 2143 FWL

43-047-53598	NBU 1022-5K1CS	Sec 05 T10S R22E 2102 FSL 2423 FEL
	BHL	Sec 05 T10S R22E 2246 FSL 2160 FWL

43-047-53599	NBU 1022-5K1BS	Sec 05 T10S R22E 2109 FSL 2415 FEL
	BHL	Sec 05 T10S R22E 2604 FSL 2144 FWL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 1022-5J PAD		
43-047-53600	NBU 1022-5J4BS	Sec 05 T10S R22E 2122 FSL 2400 FEL
	BHL	Sec 05 T10S R22E 1765 FSL 1816 FEL
43-047-53601	NBU 1022-5J1CS	Sec 05 T10S R22E 2129 FSL 2393 FEL
	BHL	Sec 05 T10S R22E 2101 FSL 1816 FEL
NBU 1022-5I3 PAD		
43-047-53565	NBU 1022-5P4CS	Sec 05 T10S R22E 1410 FSL 0824 FEL
	BHL	Sec 05 T10S R22E 0205 FSL 0499 FEL
43-047-53566	NBU 1022-5P4BS	Sec 05 T10S R22E 1420 FSL 0821 FEL
	BHL	Sec 05 T10S R22E 0586 FSL 0494 FEL
43-047-53567	NBU 1022-5P1CS	Sec 05 T10S R22E 1429 FSL 0818 FEL
	BHL	Sec 05 T10S R22E 0921 FSL 0494 FEL
43-047-53568	NBU 1022-5O1BS	Sec 05 T10S R22E 1439 FSL 0815 FEL
	BHL	Sec 05 T10S R22E 1093 FSL 1818 FEL
43-047-53569	NBU 1022-5J4CS	Sec 05 T10S R22E 1448 FSL 0812 FEL
	BHL	Sec 05 T10S R22E 1429 FSL 1817 FEL
NBU 1022-5I PAD		
43-047-53570	NBU 1022-5I3AS	Sec 05 T10S R22E 1944 FSL 0185 FEL
	BHL	Sec 05 T10S R22E 1809 FSL 0852 FEL
43-047-53571	NBU 1022-5I1BS	Sec 05 T10S R22E 1947 FSL 0175 FEL
	BHL	Sec 05 T10S R22E 2543 FSL 0517 FEL
43-047-53572	NBU 1022-5H4CS	Sec 05 T10S R22E 1950 FSL 0166 FEL
	BHL	Sec 05 T10S R22E 2432 FNL 0493 FEL
43-047-53573	NBU 1022-5H4BS	Sec 05 T10S R22E 1954 FSL 0156 FEL
	BHL	Sec 05 T10S R22E 2097 FNL 0492 FEL
NBU 1022-5E PAD		
43-047-53575	NBU 1022-5E4CS	Sec 05 T10S R22E 1568 FNL 1089 FWL
	BHL	Sec 05 T10S R22E 2555 FNL 0846 FWL
43-047-53576	NBU 1022-5E4BS	Sec 05 T10S R22E 1559 FNL 1085 FWL
	BHL	Sec 05 T10S R22E 2150 FNL 0854 FWL
43-047-53577	NBU 1022-5E1AS	Sec 05 T10S R22E 1550 FNL 1080 FWL
	BHL	Sec 05 T10S R22E 1410 FNL 1260 FWL
43-047-53578	NBU 1022-5D2DS	Sec 05 T10S R22E 1542 FNL 1075 FWL
	BHL	Sec 05 T10S R22E 0435 FNL 0628 FWL
NBU 1022-5C Pad		
43-047-53579	NBU 1022-5F4BS	Sec 05 T10S R22E 1261 FNL 2602 FWL
	BHL	Sec 05 T10S R22E 2102 FNL 2143 FWL
43-047-53580	NBU 1022-5F1CS	Sec 05 T10S R22E 1251 FNL 2600 FWL
	BHL	Sec 05 T10S R22E 1766 FNL 2142 FWL
43-047-53581	NBU 1022-5C4BS	Sec 05 T10S R22E 1241 FNL 2597 FWL
	BHL	Sec 05 T10S R22E 1081 FNL 2140 FWL
43-047-53582	NBU 1022-5C1DS	Sec 05 T10S R22E 1222 FNL 2593 FWL
	BHL	Sec 05 T10S R22E 0532 FNL 2413 FWL
43-047-53583	NBU 1022-5C1BS	Sec 05 T10S R22E 1232 FNL 2595 FWL
	BHL	Sec 05 T10S R22E 0115 FNL 2150 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 1022-5B PAD		
43-047-53584	NBU 1022-5G4BS	Sec 05 T10S R22E 1087 FNL 1961 FEL
	BHL	Sec 05 T10S R22E 2052 FNL 1878 FEL
43-047-53585	NBU 1022-5G1BS	Sec 05 T10S R22E 1084 FNL 1951 FEL
	BHL	Sec 05 T10S R22E 1617 FNL 1823 FEL
43-047-53586	NBU 1022-5B4BS	Sec 05 T10S R22E 1075 FNL 1923 FEL
	BHL	Sec 05 T10S R22E 0921 FNL 1811 FEL
43-047-53587	NBU 1022-5B1CS	Sec 05 T10S R22E 1078 FNL 1932 FEL
	BHL	Sec 05 T10S R22E 0586 FNL 1810 FEL
43-047-53588	NBU 1022-5B1BS	Sec 05 T10S R22E 1081 FNL 1942 FEL
	BHL	Sec 05 T10S R22E 0247 FNL 1804 FEL
NBU 1022-5N PAD		
43-047-53592	NBU 1022-5O3AS	Sec 05 T10S R22E 1269 FSL 2004 FWL
	BHL	Sec 05 T10S R22E 0680 FSL 2260 FEL
43-047-53593	NBU 1022-5N1CS	Sec 05 T10S R22E 1260 FSL 1999 FWL
	BHL	Sec 05 T10S R22E 0701 FSL 2151 FWL
43-047-53594	NBU 1022-5M4AS	Sec 05 T10S R22E 1235 FSL 1982 FWL
	BHL	Sec 05 T10S R22E 0638 FSL 1295 FWL
43-047-53595	NBU 1022-5M1BS	Sec 05 T10S R22E 1243 FSL 1988 FWL
	BHL	Sec 05 T10S R22E 1141 FSL 0825 FWL
43-047-53596	NBU 1022-5L4CS	Sec 05 T10S R22E 1252 FSL 1993 FWL
	BHL	Sec 05 T10S R22E 1557 FSL 0826 FWL
43-047-53597	NBU 1022-5K4CS	Sec 05 T10S R22E 1277 FSL 2009 FWL
	BHL	Sec 05 T10S R22E 1508 FSL 2148 FWL
NBU 921-21B PAD		
43-047-53604	NBU 921-21A1BS	Sec 21 T09S R21E 0651 FNL 2056 FEL
	BHL	Sec 21 T09S R21E 0085 FNL 0495 FEL
43-047-53608	NBU 921-21B4CS	Sec 21 T09S R21E 0650 FNL 2086 FEL
	BHL	Sec 21 T09S R21E 1243 FNL 1822 FEL
43-047-53609	NBU 921-21B1BS	Sec 21 T09S R21E 0650 FNL 2066 FEL
	BHL	Sec 21 T09S R21E 0249 FNL 1822 FEL
43-047-53622	NBU 921-21B4BS	Sec 21 T09S R21E 0650 FNL 2076 FEL
	BHL	Sec 21 T09S R21E 0911 FNL 1822 FEL
NBU 921-21C PAD		
43-047-53605	NBU 921-21C4BS	Sec 21 T09S R21E 0978 FNL 1707 FWL
	BHL	Sec 21 T09S R21E 0745 FNL 2153 FWL
43-047-53606	NBU 921-21C1CS	Sec 21 T09S R21E 0975 FNL 1698 FWL
	BHL	Sec 21 T09S R21E 0414 FNL 2152 FWL
43-047-53607	NBU 921-21C1BS	Sec 21 T09S R21E 0972 FNL 1688 FWL
	BHL	Sec 21 T09S R21E 0084 FNL 2152 FWL
43-047-53613	NBU 921-21D4CS	Sec 21 T09S R21E 0969 FNL 1679 FWL
	BHL	Sec 21 T09S R21E 1240 FNL 0826 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 921-21D PAD		
43-047-53610	NBU 921-21D1CS	Sec 21 T09S R21E 0243 FNL 1065 FWL
	BHL	Sec 21 T09S R21E 0578 FNL 0826 FWL
43-047-53611	NBU 921-21D1BS	Sec 21 T09S R21E 0240 FNL 1056 FWL
	BHL	Sec 21 T09S R21E 0248 FNL 0826 FWL
43-047-53623	NBU 921-21D4BS	Sec 21 T09S R21E 0246 FNL 1075 FWL
	BHL	Sec 21 T09S R21E 0929 FNL 0826 FWL
NBU 921-21G PAD		
43-047-53624	NBU 921-21H1CS	Sec 21 T09S R21E 1766 FNL 1748 FEL
	BHL	Sec 21 T09S R21E 1743 FNL 0495 FEL
43-047-53625	NBU 921-21G4BS	Sec 21 T09S R21E 1760 FNL 1768 FEL
	BHL	Sec 21 T09S R21E 2237 FNL 1823 FEL
43-047-53626	NBU 921-21G1CS	Sec 21 T09S R21E 1757 FNL 1777 FEL
	BHL	Sec 21 T09S R21E 1906 FNL 1822 FEL
43-047-53627	NBU 921-21G1BS	Sec 21 T09S R21E 1754 FNL 1787 FEL
	BHL	Sec 21 T09S R21E 1574 FNL 1822 FEL
NBU 921-21F PAD		
43-047-53628	NBU 921-21F4BS	Sec 21 T09S R21E 1613 FNL 2171 FWL
	BHL	Sec 21 T09S R21E 2070 FNL 2154 FWL
43-047-53629	NBU 921-21F1CS	Sec 21 T09S R21E 1612 FNL 2161 FWL
	BHL	Sec 21 T09S R21E 1739 FNL 2153 FWL
43-047-53630	NBU 921-21F1BS	Sec 21 T09S R21E 1615 FNL 2181 FWL
	BHL	Sec 21 T09S R21E 1407 FNL 2153 FWL
43-047-53631	NBU 921-21C4CS	Sec 21 T09S R21E 1616 FNL 2191 FWL
	BHL	Sec 21 T09S R21E 1076 FNL 2153 FWL



Michael L. Coulthard

Digitally signed by Michael L. Coulthard
 DN: cn=Michael L. Coulthard, o=Bureau of Land
 Management, ou=Branch of Minerals,
 email=Michael_Coulthard@blm.gov, c=US
 Date: 2013.02.26 08:11:16 -07'00'

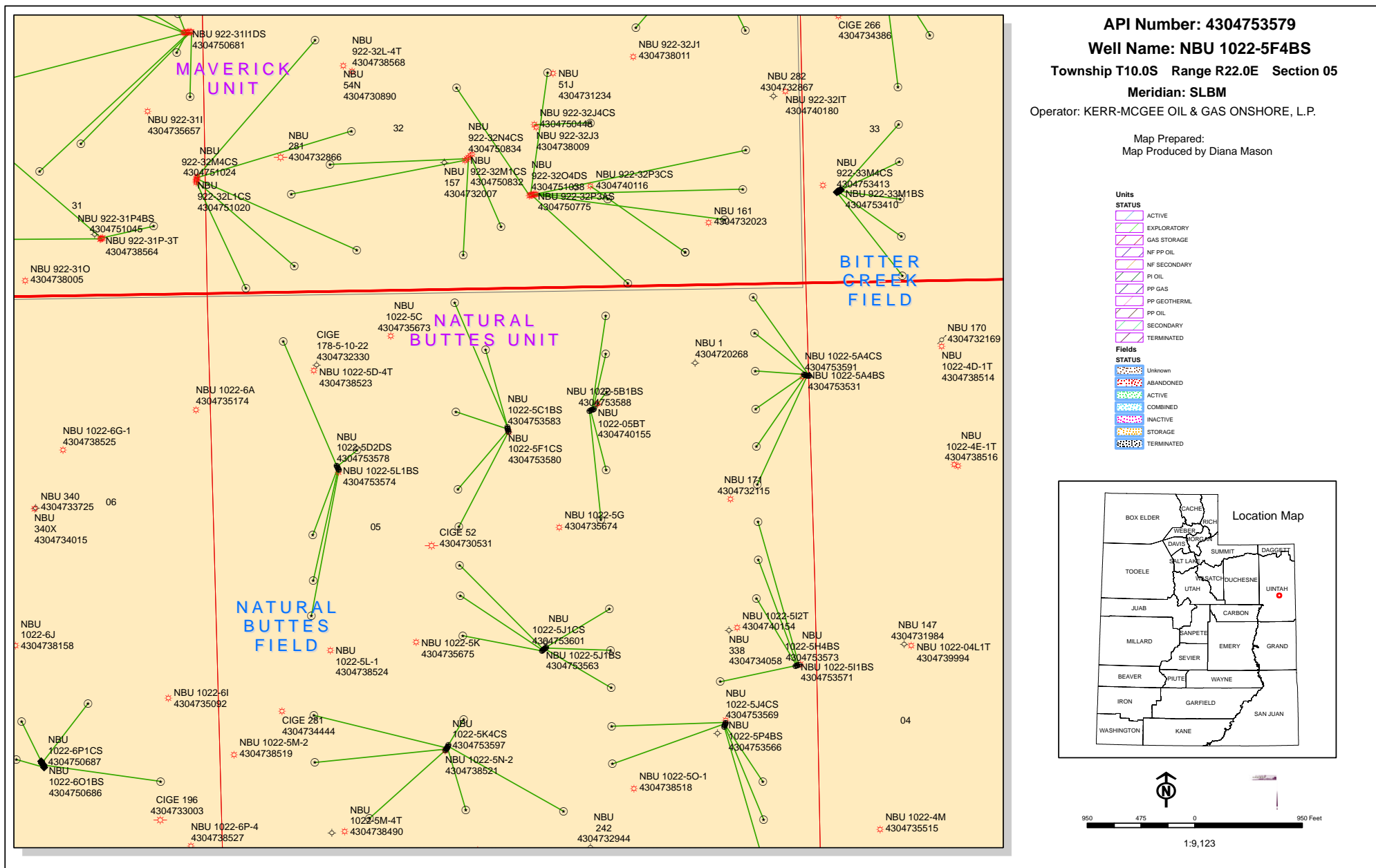
bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:2-26-13

RECEIVED: February 26, 2013

API NUMBER	WELL NAME	SURFACE LOCATION
43-047-53530	NBU 1022-5A1BS	Sec 05 T10S R22E 0808 FNL 0014 FEL
43-047-53531	NBU 1022-5A4BS	Sec 05 T10S R22E 0794 FNL 0062 FEL
43-047-53532	NBU 1022-5A1CS	Sec 05 T10S R22E 0805 FNL 0024 FEL
43-047-53563	NBU 1022-5J1BS	Sec 05 T10S R22E 2136 FSL 2386 FEL
43-047-53564	NBU 1022-5F4CS	Sec 05 T10S R22E 2115 FSL 2408 FEL
43-047-53565	NBU 1022-5P4CS	Sec 05 T10S R22E 1410 FSL 0824 FEL
43-047-53566	NBU 1022-5P4BS	Sec 05 T10S R22E 1420 FSL 0821 FEL
43-047-53567	NBU 1022-5P1CS	Sec 05 T10S R22E 1429 FSL 0818 FEL
43-047-53568	NBU 1022-5O1BS	Sec 05 T10S R22E 1439 FSL 0815 FEL
43-047-53569	NBU 1022-5J4CS	Sec 05 T10S R22E 1448 FSL 0812 FEL
43-047-53570	NBU 1022-5I3AS	Sec 05 T10S R22E 1944 FSL 0185 FEL
43-047-53571	NBU 1022-5I1BS	Sec 05 T10S R22E 1947 FSL 0175 FEL
43-047-53572	NBU 1022-5H4CS	Sec 05 T10S R22E 1950 FSL 0166 FEL
43-047-53573	NBU 1022-5H4BS	Sec 05 T10S R22E 1954 FSL 0156 FEL
43-047-53575	NBU 1022-5E4CS	Sec 05 T10S R22E 1568 FNL 1089 FWL
43-047-53576	NBU 1022-5E4BS	Sec 05 T10S R22E 1559 FNL 1085 FWL
43-047-53577	NBU 1022-5E1AS	Sec 05 T10S R22E 1550 FNL 1080 FWL
43-047-53578	NBU 1022-5D2DS	Sec 05 T10S R22E 1542 FNL 1075 FWL
43-047-53579	NBU 1022-5F4BS	Sec 05 T10S R22E 1261 FNL 2602 FWL
43-047-53580	NBU 1022-5F1CS	Sec 05 T10S R22E 1251 FNL 2600 FWL
43-047-53581	NBU 1022-5C4BS	Sec 05 T10S R22E 1241 FNL 2597 FWL
43-047-53582	NBU 1022-5C1DS	Sec 05 T10S R22E 1222 FNL 2593 FWL
43-047-53583	NBU 1022-5C1BS	Sec 05 T10S R22E 1232 FNL 2595 FWL
43-047-53584	NBU 1022-5G4BS	Sec 05 T10S R22E 1087 FNL 1961 FEL
43-047-53585	NBU 1022-5G1BS	Sec 05 T10S R22E 1084 FNL 1951 FEL
43-047-53586	NBU 1022-5B4BS	Sec 05 T10S R22E 1075 FNL 1923 FEL
43-047-53587	NBU 1022-5B1CS	Sec 05 T10S R22E 1078 FNL 1932 FEL
43-047-53588	NBU 1022-5B1BS	Sec 05 T10S R22E 1081 FNL 1942 FEL
43-047-53589	NBU 1022-5H1CS	Sec 05 T10S R22E 0802 FNL 0033 FEL
43-047-53590	NBU 1022-5H1BS	Sec 05 T10S R22E 0799 FNL 0043 FEL
43-047-53591	NBU 1022-5A4CS	Sec 05 T10S R22E 0797 FNL 0053 FEL
43-047-53592	NBU 1022-5O3AS	Sec 05 T10S R22E 1269 FSL 2004 FWL
43-047-53593	NBU 1022-5N1CS	Sec 05 T10S R22E 1260 FSL 1999 FWL
43-047-53594	NBU 1022-5M4AS	Sec 05 T10S R22E 1235 FSL 1982 FWL
43-047-53595	NBU 1022-5M1BS	Sec 05 T10S R22E 1243 FSL 1988 FWL
43-047-53596	NBU 1022-5L4CS	Sec 05 T10S R22E 1252 FSL 1993 FWL
43-047-53597	NBU 1022-5K4CS	Sec 05 T10S R22E 1277 FSL 2009 FWL
43-047-53598	NBU 1022-5K1CS	Sec 05 T10S R22E 2102 FSL 2423 FEL
43-047-53599	NBU 1022-5K1BS	Sec 05 T10S R22E 2109 FSL 2415 FEL
43-047-53600	NBU 1022-5J4BS	Sec 05 T10S R22E 2122 FSL 2400 FEL
43-047-53601	NBU 1022-5J1CS	Sec 05 T10S R22E 2129 FSL 2393 FEL
43-047-53604	NBU 921-21A1BS	Sec 21 T09S R21E 0651 FNL 2056 FEL
43-047-53605	NBU 921-21C4BS	Sec 21 T09S R21E 0978 FNL 1707 FWL
43-047-53606	NBU 921-21C1CS	Sec 21 T09S R21E 0975 FNL 1698 FWL
43-047-53607	NBU 921-21C1BS	Sec 21 T09S R21E 0972 FNL 1688 FWL

API NUMBER	WELL NAME	SURFACE LOCATION
43-047-53608	NBU 921-21B4CS	Sec 21 T09S R21E 0650 FNL 2086 FEL
43-047-53609	NBU 921-21B1BS	Sec 21 T09S R21E 0650 FNL 2066 FEL
43-047-53610	NBU 921-21D1CS	Sec 21 T09S R21E 0243 FNL 1065 FWL
43-047-53611	NBU 921-21D1BS	Sec 21 T09S R21E 0240 FNL 1056 FWL
43-047-53613	NBU 921-21D4CS	Sec 21 T09S R21E 0969 FNL 1679 FWL
43-047-53622	NBU 921-21B4BS	Sec 21 T09S R21E 0650 FNL 2076 FEL
43-047-53623	NBU 921-21D4BS	Sec 21 T09S R21E 0246 FNL 1075 FWL
43-047-53624	NBU 921-21H1CS	Sec 21 T09S R21E 1766 FNL 1748 FEL
43-047-53625	NBU 921-21G4BS	Sec 21 T09S R21E 1760 FNL 1768 FEL
43-047-53626	NBU 921-21G1CS	Sec 21 T09S R21E 1757 FNL 1777 FEL
43-047-53627	NBU 921-21G1BS	Sec 21 T09S R21E 1754 FNL 1787 FEL
43-047-53628	NBU 921-21F4BS	Sec 21 T09S R21E 1613 FNL 2171 FWL
43-047-53629	NBU 921-21F1CS	Sec 21 T09S R21E 1612 FNL 2161 FWL
43-047-53630	NBU 921-21F1BS	Sec 21 T09S R21E 1615 FNL 2181 FWL
43-047-53631	NBU 921-21C4CS	Sec 21 T09S R21E 1616 FNL 2191 FWL



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/6/2013

API NO. ASSIGNED: 43047535790000

WELL NAME: NBU 1022-5F4BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NENW 05 100S 220E

Permit Tech Review: ☒

SURFACE: 1261 FNL 2602 FWL

Engineering Review: ☒

BOTTOM: 2102 FNL 2143 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.98177

LONGITUDE: -109.46385

UTM SURF EASTINGS: 631163.00

NORTHINGS: 4426864.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01195

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: FEDERAL - WYB000291☐ Potash☒ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8496☐ RDCC Review:☐ Fee Surface Agreement☒ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit: NATURAL BUTTES

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason

RECEIVED: March 12, 2013



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1022-5F4BS
API Well Number: 43047535790000
Lease Number: UTU-01195
Surface Owner: FEDERAL
Approval Date: 3/12/2013

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 08 2013

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU01195
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No. UTU63047A
Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		8. Lease Name and Well No. NBU 1022-5F4BS
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	9. API Well No. 4304753579
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW Lot 3 1261FNL 2602FWL 39.981792 N Lat, 109.463953 W Lon At proposed prod. zone SENW 2102FNL 2143FWL 39.979484 N Lat, 109.465559 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 48 MILES SOUTHEAST OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 5 T10S R22E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 503	16. No. of Acres in Lease 577.75	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 311	13. State UT
19. Proposed Depth 10417 MD 10317 TVD	20. BLM/BIA Bond No. on file WYB000291	21. Elevations (Show whether DF, KB, RT, GL, etc.) 5184 GL
22. Approximate date work will start 06/01/2012	23. Estimated duration 60-90 DAYS	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 01/04/2013
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 13 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #176585 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 01/14/2013 ()

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	KERR MCGEE OIL & GAS ONSHORE	Location:	LOT 3, Sec. 5, T10S, R22E
Well No:	NBU 1022-5F4BS	Lease No:	UTU-01195
API No:	43-047-53579	Agreement:	

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - Air Quality
 - Soils
 - Vegetation: *Sclerocactus wetlandicus*
 - Wildlife: Colorado River Fish

Where populations or individuals of *Sclerocactus wetlandicus* are located within 300 feet of the proposed edge of project ROWs, the following actions will be taken to minimize impacts:

- Silt fencing will be used to protect cacti that are within 300 feet and downslope or downwind of surface disturbance. Fencing is intended to prevent sedimentation or dust deposition and will be evaluated for effectiveness by a qualified botanist.
- A qualified botanist will be on site to monitor surface-disturbing activities when cacti are within 300 feet of any surface disturbance.
- Dust abatement (consisting of water only) will occur during construction where plants are closer than 300 feet from surface-disturbing activities.
- Cacti within 300 feet of proposed surface disturbance will be flagged immediately prior to surface-disturbing activities and flags will be removed immediately after surface-disturbing activities are completed. Leaving cacti flagged for as short a time as possible will minimize drawing attention to the cacti location and reduce potential for theft.
- Pipelines will be sited to maximize distance from adjacent cacti locations.
- Project personnel associated with construction activities will be instructed to drive at a speed limit of 15 miles per hour on unpaved roads and remain in existing roadway ROWs at all times.

For permanent surface pipelines, KMG will adhere to existing cacti survey/buffer guidelines of 300 feet, or amended guidelines if developed by the BLM and USFWS. In areas where avoidance by 300 feet is not feasible and populations or individuals of *Sclerocactus wetlandicus* are within 50 feet of proposed project components, the following actions will be taken to minimize impacts:

- Prior to construction, flag individual cactus. Once pipe installation is complete, remove the flagging.
- Prior to construction, install protective fencing around the cacti if they are down gradient of the surface pipe. Once pipe installation is complete, remove the protective fencing.
- A qualified botanist will be present during construction to monitor surface line installation.

The following considerations are required for those wells where KMG deems completion fluid recycling is appropriate based on new well density and topography:

- Temporary lines associated with recycling of completion water will be sited in existing ROWs. The pressure in the lines is less than 50 pounds per square inch and the lines are constructed of rigid aluminum; therefore, virtually no movement will occur during operation.
- If surface water completion lines are placed within the footprint of a road disturbance where vegetation does not grow, *Sclerocactus wetlandicus* surveys will not be necessary.
- A qualified botanist will survey a 50-foot-wide corridor along roads where temporary lines are planned to ensure *Sclerocactus wetlandicus* is not present.
- If cacti are present within the 50-foot-wide survey corridor and avoidance is necessary (to ensure the line is more than 50 feet away from identified cactus), the new alignment will, if possible, be such that the cacti are topographically higher than the re-aligned line so a potential spill from the line will not impact the identified cacti.
- If it is not possible to re-align the surface lines to avoid individuals or populations of the *Sclerocactus wetlandicus* that are within 50 feet of surface disturbance, the following actions will be taken to minimize impacts:
 - Prior to construction, KMG will flag individual cacti. Once pipe installation is complete, remove the flagging.
 - Prior to construction, KMG will install protective fencing around the cacti if they are down gradient of the surface pipe. Once pipe installation is complete, remove the protective fencing.
 - A qualified botanist will be present during construction to monitor surface line installation.

Avoidance of cactus by 300 feet will take priority in the expansion of pads within the cactus core conservation areas. When the 300-foot buffer cannot be avoided in pad expansion, KMG will notify the USFWS and work with the BLM to determine pad expansion that places a priority on avoiding cactus impacts.

KMG will follow existing ROWs and/or roads in constructing new buried pipelines within the cactus core conservation areas. For instance, where a new buried pipeline is unable to follow an existing ROW and/or road and exceeds 600 feet in length, KMG will work with the USFWS and the BLM to determine a route that places a priority on avoiding cactus impacts.

Maintenance activities on pipelines within cactus core conservation areas will avoid impacts to cactus, to the extent possible.

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established

- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Bird exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals (BLM 2012b).
- KMG will install bird-excluding devices that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks (BLM 2012b).
- Tree removal within pinyon-juniper habitat will occur outside of the nesting season for migratory birds (approximately 4/1 to 7/31 (BLM 2012b).
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to avoid damaging fences, gates, and cattleguards, including upgrading cattleguard gate widths and load-bearing requirements and fencing all open pits and cellars.

If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattleguard and gate installed per BLM guidance.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in the APD under Section 9 of the Drilling Program.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 20, 2014

Teena Paulo
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Suite 600
Denver, CO 80202

Re: APDs Rescinded for Kerr-McGee O&G Onshore, L.P., Uintah County

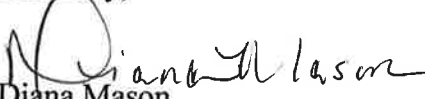
Dear Ms. Paulo:

Enclosed find the list of APDs that you have asked to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective February 20, 2014.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal

43-047-52301	NBU 1022-25D3AS
43-047-52302	NBU 1022-25E2AS
43-047-53531	NBU 1022-5A4BS
43-047-53579	NBU 1022-5F4BS
43-047-50107	NBU 921-8B4S
43-047-50109	NBU 921-8A1S
43-047-52299	NBU 1022-25F2AS
43-047-52296	NBU 1022-25C3DS
43-047-52297	NBU 1022-25C3AS
43-047-52295	NBU 1022-25C2DS
43-047-52300	NBU 1022-25D3DS
43-047-52298	NBU 1022-25D2DS
43-047-51025	NBU 921-11I

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 08 2015

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

BLM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU01195
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 173779 1099 18TH STREET, SUITE 600 DENVER, CO 80217		7. If Unit or CA/Agreement, Name and/or No. UTU63047A
3b. Phone No. (include area code) Ph: 720-929-6808		8. Well Name and No. NBU 1022-5F4BS
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T10S R22E Mer SLB		9. API Well No. 43-047-53579
		10. Field and Pool, or Exploratory NATURAL BUTTES
		11. County or Parish, and State UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

APD 6/12/13

NEPA-2012-179 EA

CONDITIONS OF APPROVAL ATTACHED

RECEIVED

JUN 15 2015

DIV. OF OIL, GAS & MINING

VERNAL FIELD OFFICE

ENG. RAH 6/3/15

GEOL. _____

E.S. _____

PET. _____

RECL. _____

14. I hereby certify that the foregoing is true and correct. Electronic Submission #301232 verified by the BLM Well Information System For KERR MCGEE OIL & GAS ONSHORE, sent to the Vernal Committed to AFMSS for processing by JOHNETTA MAGEE on 05/12/2015 ()	
Name (Printed/Typed) JENNIFER THOMAS	Title REGULATORY SPECIALIST
Signature _____ (Electronic Submission)	Date 05/08/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>[Signature]</u>	Title Assistant Field Manager Lands & Mineral Resources	Date JUN 05 2015
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office VERNAL FIELD OFFICE	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

UDOCM

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent APD Extension

Lease: UTU-01195
Well: NBU 1022-5F4BS
Location: SENW Sec 5-T10S-R22E

An extension for the referenced APD is granted with the following conditions:

1. The extension and APD shall expire on 06/13/2017.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777